

MAP OF THE CITY OF PORTSMOUTH SHOWING INCIDENCE OF CERTAIN INFECTIOUS DISEASES DURING THE YEAR 1931

- SCARLET FEVER
- + DIPHTHERIA
- ENTERIC FEVER



MAP OF PORTSMOUTH & SOUTHSEA
 Photo-lithographed for the City Council by
THE GROSVENOR PRESS,
 (The Hampshire Paper Bag Manufacturing Co.)
 BLACKBURN ROAD, PORTSMOUTH.
 Based upon the Ordnance Survey Map with the sanction
 of the Controller of H.M. Stationery Office

“SALUS POPULI SUPREMA LEX”



City of Portsmouth HEALTH REPORT

For the year 1931

BY

A. MEARNS FRASER

M.D. (Edin. Univ.), D.P.H. (Camb. Univ.)

Medical Officer of Health,
Medical Officer of Health to the Port of Portsmouth,
Medical Adviser to the Education Committee,

INCLUDING

The Report of the Public Analyst.

PORTSMOUTH :

THE GROSVENOR PRESS, LTD., BLACKFRIARS ROAD,



Digitized by the Internet Archive
in 2018 with funding from
Wellcome Library

<https://archive.org/details/b29995656>

Health and Housing Committee

1930-31.

The Right Worshipful the Lord Mayor :
COUNCILLOR WALTER GLEAVE, J.P.

Chairman :
COUNCILLOR A. E. ALLAWAY.

Vice-Chairman :
COUNCILLOR L. N. BLAKE.

Aldermen :
SIR JOHN TIMPSON, K.B.E., J.P.
A. HEMINGWAY (deceased).
J. W. PERKINS, J.P.
W. A. BILLING.
A. RICE.

Councillors :

F. J. SPICKERNELL
J. H. PRINCE
A. KILLE

W. H. ANDREWS
J. A. GRIFFITHS
J. J. ROGERS

Major W. H. R. PREWER, O.B.E.

W. J. AVENS

A. JOHNSON

J. E. SMITH, J.P.

A. G. STAPLEFORD

G. W. POST, J.P.

W. W. REED

J. ELLIS-JONES

OFFICERS OF THE Medical Officer of Health's Dept.

Medical Officer of Health :

A. MEARNS FRASER, M.D., D.P.H.

Assistant Medical Officer of Health :

ROWAN W. REVELL, M.D., D.P.H., M.R.C.S., L.R.C.P. (Lond.)
M.B., B.S., (Lond.)

Chief Sanitary Inspector :

C. W. HALL, Cert. R. San. I., Hons. Medallist City and Guilds, Lond.
R.P.C. Lond.

Chief Clerk and Meteorological Observer :

H. G. GRAY, Cert. R. San. I.

Meat, Food and Sanitary Inspector :

D. HOGG, Cert. R. San. I., Meat and Foods Cert. Inc. San. Assoc. of Scotland.

Inspectors of New Buildings and Sanitary Inspectors :

A. F. PARDO, Cert. R. San. I., Hons. City and Guilds, Lond., R.P.C. Lond.
G. S. GATTRELL, Cert. R. San. I., Hons. City & Guilds, Lond., R.P.C. Lond.

Inspector of Workshops and Sanitary Inspector :

F. R. BELL, Cert. R. San. I.

Inspector under the Food and Drugs (Adulteration) Act and Sanitary Inspector :

E. J. SINNETT, Cert. R. San. I.

Housing Inspector :

E. B. SHAW, Cert. R. San. I., Hons. City and Guilds, Lond., R.P.C., Lond.

Sanitary Inspectors :

C. J. COOKSLEY, Cert. R. San. I., Hons. City & Guilds, Lond.
F. H. MILLICAN, Cert. R. San. I. L. RICHARDS, Cert. R. San. I.
S. W. SMITH, Cert. R. San. I. A. C. HARRISON, Cert. S.I.B.
F. T. RIPPIN, Cert. S.I.B. and Meat and Foods Cert. (from April).
W. E. ANSTEE, Cert. S.I.B. (from April).
W. J. SANDFORD, Cert. S.I.B. (from April).

First Assistant Clerk : L. C. ROGERS, Cert. S.I.B.

Assistant Clerks : E. S. CHADWICK, H. S. WOODCOCK.

Health Visitors :

* MISS D. POULSON	* MISS M. E. HANDLEY
* MISS A. KNIGHT	* MISS L. CUDLIPP
* MRS. M. SMEATON	* MISS N. R. E. RUSH
* † MISS W. G. SHERBORNE (from April).	

Port Sanitary Inspector : F. BATCHELOR.

Disinfector : B. J. HILLS.

* *Certified Midwife.*

† *Health Visitors Cert. R.S.I.*

Public Vaccinators (part time).

C. J. MAYHEW, M.R.C.S. (Eng.) L.R.C.P. (Lond.)

H. J. BELL, B.A., L.R.C.P., L.R.C.S. (Edin.)

Vaccination Officer :

H. W. JOHNSON (to June), L. T. MCKINLAY (from July).

Infant Life Protection Visitor :

* MRS. B. MADDEN.

MUNICIPAL TUBERCULOSIS DISPENSARY.**Medical Officer :**

ROWAN W. REVELL, M.D., D.P.H., M.R.C.S., L.R.C.P., (Lond.).

Nurses :

MISS L. LAMB

MISS V. F. WARDLAW

* MISS S. M. MITCHELL

* MISS H. M. NEVILL

Secretary :

* MISS E. HEALEY

Almoner :

* MISS N. O. ALLEN.

CHILD WELFARE CENTRES AND MUNICIPAL MATERNITY HOSPITAL.**Medical Officer :**

RUBY N. FOGGIE, M.B., Ch.B.

Matron :

* MISS C. A. ARKCOLL (deceased) (to September).

MISS P. M. HUGHES (from October).

Almoner :

* MISS N. O. ALLEN

Lecturer to Pupils :

D. McASKIE, M.B., C.M. (Ed.)

MILTON HOSPITAL FOR INFECTIOUS DISEASES.**Medical Officer (part time).**

J. MCGREGOR, L.R.C.P., L.R.C.S. (to June).

Matron :

MISS F. PETCHEY.

LANGSTONE HOSPITAL.**Medical Officer :**

ROWAN W. REVELL, M.D., D.P.H., M.R.C.S., M.R.C.P., (Lond.).

Matron :

MISS J. S. BROWN.

PUBLIC ANALYST : R. P. PAGE, F.I.C.**Assistant : C. M. BECKETT.**** Certified Midwife.*

SCHOOL MEDICAL SERVICE.

Medical Adviser to the Education Committee :

A. MEARNS FRASER, M.D. (Edin.) D.P.H. (Camb.)

School Medical Officer :

T. ERNEST ROBERTS, M.B., B.S. (Lond.), M.R.C.S. (Eng.) D.P.H. (Camb.)

Assistant School Medical Officers :

ELIZABETH M. MARTIN., M.B., B.Ch. (Belfast) D.P.H.
JOHN M. MOUNSEY, B.A., M.B., B.Ch., B.A.O., (Dublin).
W. J. LAIRD, M.B., Ch.B., D.T.M. & H., (Liverpool).

Opthalmic Surgeon (part time).

W. S. INMAN, M.B., (Lond.).

Dental Surgeon :

P. G. D. WINTER, L.D.S., R.C.S., (Eng.)

Assistant Dental Surgeons :

L. J. THRELFALL, L.D.S., R.C.S., (Eng.).
MISS M. C. LAUDER, L.D.S., R.C.S., (Eng.).

Nurse in Charge :

* MISS B. LILLEY, Cert. San. Inst., Cert. Hygiene B.E.

School Nurses :

MISS A. M. DAWKINS, Cert. Med. Psych.
* MISS A. A. TROTTER.
MISS M. DURMAN
* MISS M. McKENZIE
* MISS K. PAGE, Cert. Med. Psych.
MISS E. V. SALMON, Cert. C.S., M.M.G.
* MISS G. A. JONES.
* MISS G. A. COOK
* † MISS E. WHEELER

CITY MENTAL HOSPITAL.

Medical Superintendent :

THOMAS BEATON, O.B.E., M.D., (Lond.) M.B., B.S., F.R.C.P. (Lond.)

Assistant Medical Officers :

F. E. STOKES, M.D. (Glas.), M.B., Ch.B., R.C.P.S. (Edin.), D.P.H. (Camb.).
A. F. GRIMBLY, M.A., M.D. (Dub.), B.A., M.B., B.Ch., B.A.O. (Dub.).
D.P.M., R.C.P.S.
G. G. BROWN, L.R.C.P., S., (Edin.), L.D.S.

VENEREAL DISEASES CLINIC.

Medical Officer (part time).

A. CAMBELL, M.B., Ch.B.

Pathologist (part time) :

J. A. D. RADCLIFFE, M.B., B.Ch., B.A.O., R.U.I.

* *Certified Midwife.*

† *Health Visitor's Cert. R.S.I.*

POLICE DEPARTMENT.

Police Surgeons (part time) :

H. H. FISK, M.R.C.S., (Eng.), L.R.C.P., (Lond.).

R. HAMER HODGES, M.B., B.S., (Lond.), M.R.C.S., L.R.C.P., (Lond.).

MEDICAL REFEREE, WORKMEN'S COMPENSATION ACT (part time).

ROGER H. EMMETT, B.A., (Camb.), M.A., M.R.C.S. (Eng.) L.R.C.P. (Lond.).

MEDICAL OFFICER, CORPORATION TRAMWAYS (part time).

J. C. A. McCALDEN, B.A., (Dub.), M.B., B.Ch., B.A.O.

VETERINARY SURGEON (part time).

H. GREEN, M.R.C.V.S.

PUBLIC ASSISTANCE DEPARTMENT.

Medical Superintendent, St. Mary's Hospital :

R. C. MACPHERSON, M.B., Ch.B., (Glas.).

Deputy Medical Superintendent, St. Mary's Hospital :

R. A. ZEITLIN, M.R.C.S., L.R.C.P., (Lond.).

Assistant Medical Officers.

R. G. GWYNNE, L.R.C.P.

R. C. W. WHITLING, M.R.C.S., L.R.C.P.

Dental Surgeon (part time) :

D. A. BEVIS, L.D.S., R.C.S., (Eng.).

District Medical Officers (part time) :

A. E. MARWOOD, L.R.C.P., L.R.C.S., (Edin.)

A. E. CLARK, M.B., Ch.B., (Glas.).

C. H. BROWNE, L.R.C.P., I. & L.M., D.P.H.

W. B. MASON, M.R.C.S., (Eng.), L.R.C.P., (Lond.).

J. C. DAVIS, M.B., Ch.B., B.A.O., (Dub.).

F. L. TITLEY, M.R.C.S., (Eng.), L.R.C.P. (Lond.).

H. J. BELL, B.A., L.R.C.P., L.R.C.S., (Edin.).

Medical Officer's Report for 1931

*To the Chairman and Members of the
Health Committee.*

GENTLEMEN,

I have the honour to submit this, my thirty-sixth Annual Report on the health of Portsmouth.

It will be seen from the statistics that the health of the City was satisfactory and that there was a marked decrease in the prevalence of infectious disease.

It is unfortunate that owing to the national financial crises many important matters have had to be postponed, amongst these are the Public Abattoir, the enlargement of the Milton Hospital, and the provision of additional housing accommodation for the working classes. The need for more houses is acute, and it is to be hoped that conditions will soon permit of more accommodation being provided.

I have the honour to be, Gentlemen,

Your obedient Servant,

A. MEARNS FRASER, M.D.,
Medical Officer of Health.

SUMMARY FOR 1931.

Civil Population (estimated to middle of 1931) .. 228,900

1.—GENERAL STATISTICS.

Area in Acres (land and inland water)	7,964
Population (Census 1921) : Civil 233,929 ; Naval and Military, 13,414.. ..	Total 247,343
Number of Inhabited Houses	58,106
Rateable Value, 1st April, 1931	£1,686,580
Sum represented by a Penny Rate	£6,642
Average number of persons in each house (Census 1921)	4.7
Average number of persons per acre (Census 1921) ..	31.4
Total Rainfall	27.76 inches, 705 millimetres

2.—EXTRACTS FROM VITAL STATISTICS.

	Total	Male	Female	
LIVE BIRTHS :				
Legitimate	4061	2114	1947	} Birth Rate 17.4
Illegitimate	275	140	135	
Total	4336	2254	2182	

STILLBIRTHS :				
Legitimate	161	90	71	} Rate per 1,000 total births 40.2
Illegitimate	21	12	9	
Total	182	102	80	

Death Rate .. 12.8

Deaths from diseases and accidents of pregnancy and childbirth :

From Sepsis 2 From other causes .. 8

Death Rate of Infants under one year of age :

All Infants per 1,000 live births	55
Legitimate Infants per 1,000 legitimate live births	51
Illegitimate Infants per 1,000 illegitimate live births ..	109

COMPARISON WITH PREVIOUS YEAR.

					1931 Population Total—248,400 Civil—228,900		1930 Population Total—261,400 Civil—242,000	
					Number	Rate per 1000 living	Number	Rate per 1000 living
*BIRTHS	..	..	..	..	4336	17.4	4261	16.3
*DEATHS	..	..	..	..	2950	12.8	2856	11.8
,,	Principal Zymotic Diseases				73	0.31	173	0.71
,,	Small-pox	..	..	..	—	—	—	—
,,	Measles	..	..	..	1	0.00	101	0.41
,,	Scarlet Fever	..	..	..	12	0.05	9	0.03
,,	Diphtheria	..	..	..	12	0.05	16	0.06
,,	Whooping Cough	..	..	..	21	0.09	6	0.02
,,	Fever	..	..	..	3	0.01	1	0.00
,,	Diarrhoea (under 2 years)				24	0.10	40	0.16
,,	Pulmonary Tuberculosis	..			189	0.82	208	0.85
,,	Cancer	..	..	..	353	1.54	334	1.38
,,	Influenza	..	..	..	65	0.28	26	0.10
					Number	Rate per 1000 Births	Number	Rate per 1000 Births
,,	Under 1 year of age	..			239	55	250	59

AVERAGE DEATH-RATE for previous Ten years (1921–1930) .. 12.04

*The Birth-rate is calculated on the total population and the Death-rates on the civil population only.

STATISTICS AND SOCIAL CONDITIONS.

A census of the population of England and Wales was taken on the 26th April, and the Preliminary Report of the Registrar General shows that the population of Portsmouth was 249,288 which represents an increase of only 2,004 above the census of 1921. I do not think that these figures accurately represent the increase in the civilian population which is almost certainly much greater. The Registrar General has not yet published the details of the census and until these are available it is not possible to ascertain the exact increase of the civilian population since the last census. In the meantime it may be pointed out that when the 1921 census was taken, the Fleet was at Portsmouth, and its personnel was reckoned in the total population, in the last census it was away, and accordingly its personnel was not included. There has also been a reduction in another branch of the service population, namely, in the strength of the Royal Marines at Eastney Barracks. These factors indicate a decrease in the service population and a corresponding increase in the civil population, and I expect that when the figures are available it will be found that the increase in the civilian population is nearly 6,000. The same factors probably explain that although the census shows an increase of 2,872 in the female population, it shows an actual decrease of 868 in the male population.

The births registered during the year, numbered 4,336, giving a birth-rate of 17.4 per 1,000 population ; this is a slight increase over the four previous years when it was 16.3, 16.8, 17.2 and 17.1 respectively. The birth-rate for England and Wales was 15.8.

The total deaths numbered 2,950, giving a death-rate of 12.8 per 1,000 population compared with 11.8 in the previous year. The death-rate for England and Wales was 12.3. Amongst the principal causes of death, it will be noticed that, as was the case last year, there is a slight increase in the number of deaths from cancer, and a slight decrease in those from pulmonary tuberculosis.

The infantile mortality rate shows a decrease, being 55 deaths per 1,000 births compared with 59 in 1930 ; the infant mortality rate of England and Wales was 66.

Particulars as to the health statistics of the City are given in the following tables :—

TABLE I.

Table showing the Population, Marriages, Inhabited Houses, Births and Deaths, for the year 1931, and the ten preceding years.

GROSS NUMBERS.

Year	Estimated Civil Population	No. of Inhabited Houses	Marriages	Registered Births	Total Number of Deaths		
					Total all ages	Under 1 year	Under 5 years
1931	228,900	58,106	2,067	4,454	2,950	239	336
1930	242,000	57,591	2,242	4,409	2,856	250	415
1929	242,000	56,861	2,017	4,519	3,345	293	438
1928	240,700	54,740	2,100	4,579	2,669	242	359
1927	232,100	54,068	1,981	4,349	2,877	235	410
1926	231,500	53,279	1,950	4,636	2,703	247	395
1925	232,900	52,649	1,958	4,857	2,802	296	447
1924	232,000	52,161	1,937	5,022	2,977	348	542
1923	230,718	51,692	1,924	5,314	2,524	276	433
1922	236,630	51,477	2,053	5,529	2,874	349	531
1921	233,929	51,050	2,132	5,651	2,612	355	510
Average 10 years 1921-30	235,447	53,556	2,030	4,886	2,823	289	447

TABLE II.

Showing Birth and Deaths Registered in Portsmouth during the four quarters ending 2nd January, 1932.

QUARTER	BIRTHS	DEATHS	Deaths of Infants under 1 year of age.	Deaths from							Rate per 1000 living.		Death-rate per 1,000 living					Death-rate per 1,000 Births	
				Enteric Fever	Measles	Scarlet Fever	Whooping Cough	Diphtheria	Influenza	Diarrhoea and Enteritis (under 2 years).	Total Births	Total Deaths (Civilians)	Measles	Scarlet Fever	Whooping Cough	Diphtheria	Influenza	Diarrhoea and Enteritis (under 2 years).	Infants under 1 year
1st Quarter	997	989	96	—	—	5	13	1	44	16	15.3	16.4	—	0.08	0.22	0.02	0.73	16.0	96
2nd Quarter	1207	669	56	—	—	6	5	3	9	6	19.5	11.7	—	0.11	0.09	0.05	0.16	5.0	46
3 d Quarter	1100	559	34	2	—	1	1	2	6	3	17.8	9.8	—	0.02	0.02	0.04	0.11	2.7	31
4th Quarter	1035	656	50	—	1	—	2	5	9	2	16.5	11.5	0.02	—	0.04	0.09	0.16	1.9	48
TOTAL ..	4339	2873	236	2	1	12	21	11	68	27	17.4	12.5	0.00	0.05	0.09	0.04	0.29	6.2	54

The above statistics have been taken from the Registrar General's Quarterly Returns, and have not been corrected.

TABLE III.

Table showing the Annual Birth-rate, Rate of Mortality, and Death-rates among children for the year 1931, and ten preceding years.

Year	Birth-rate per 1,000 of the Population	Annual Rate of Mortality per 1,000 living from all causes	Annual Rate of Mortality per 1,000 living from 7 Principal Zymotic Diseases	Deaths of Children under 1 year Percentage to total Deaths	Proportion of Deaths of Children under 1 year per 1000 Registered Births	Deaths of Children under 5 years : Percentage to total Deaths
1931	17.49	12.88	0.31	8.1	55	11.3
1930	16.30	11.80	0.71	8.7	59	14.5
1929	16.80	13.82	0.49	8.7	66	13.0
1928	17.21	11.34	0.41	8.9	55	13.2
1927	17.08	12.68	0.52	7.9	55	13.9
1926	18.20	11.67	0.60	9.1	54	14.6
1925	19.07	12.30	0.52	10.3	62	15.5
1924	20.10	12.58	0.44	11.6	69	18.1
1923	21.06	10.93	0.61	10.9	52	17.1
1922	22.11	12.14	0.61	12.1	63	18.4
1921	22.90	11.20	0.75	13.5	63	19.5
Average of 10 yrs. 1921-30	19.08	12.04	0.56	10.1	58	15.6

TABLE IV.

Showing the Population, Birth-rates, Zymotic Death-rates, and Deaths under 1 year to 1,000 Births in the 20 Large Towns for the year, 1931.

NAME OF TOWN	Population as estimated by Registrar General June, 1931	Per 1,000 living		DEATH-RATES PER 1,000 LIVING								Deaths of Children under 1 year of age to 1,000 Births
		Birth Rate	Death Rate	Small- pox	Measles	Scarlet Fever	Diph- theria	Whoop- ing Cough	Enteric Fever	Diarrhoea &Enteritis under 2yrs.	Influenza	
	1	2	3	4	5	6	7	8	9	10	11	12
1. SHEFFIELD	517,300	15.0	11.3	—	0.01	0.00	0.01	0.06	0.00	0.08	0.35	69
2. CROYDON ..	233,800	14.5	11.4	—	—	0.01	0.02	0.04	—	0.06	0.36	57
3. WEST HAM	296,700	17.7	11.4	—	0.01	0.02	0.04	0.12	0.90	0.13	0.33	63
4. BIRMINGHAM	1,012,700	17.1	11.6	—	0.17	0.01	0.06	0.09	0.00	0.14	0.27	70
5. BRISTOL ..	399,600 *	15.1	11.9	—	0.17	0.00	0.08	0.02	0.00	0.04	0.29	50
6. LEICESTER	241,300	15.3	12.4	—	0.08	—	0.02	0.05	0.00	0.09	0.17	64
7. LONDON ..	4,363,800 *	15.0	12.4	0.00	0.03	0.02	0.06	0.07	0.00	0.14	0.26	65
8. PORTSMOUTH	228,900 *	17.4	12.8	—	0.00	0.05	0.05	0.09	0.01	0.10	0.28	55
9. CARDIFF ..	223,500 *	16.8	12.8	—	0.22	0.02	0.11	0.03	0.01	0.12	0.27	77
10. STOKE-ON-TRENT	279,900	18.6	13.0	—	0.26	—	0.06	0.07	0.00	0.30	0.34	100
11. HULL ..	315,200	19.2	13.2	—	0.22	0.01	0.30	0.08	0.01	0.13	0.28	81
12. NEWCASTLE	283,600 *	17.8	13.4	—	0.45	0.02	0.02	0.20	0.00	0.16	0.29	92
13. LEEDS ..	486,400	14.8	13.4	—	0.11	0.02	0.18	0.09	0.00	0.11	0.26	77
14. NOTTINGHAM	270,900	17.2	13.6	—	0.16	—	0.01	0.04	0.00	0.18	0.31	82
15. MANCHESTER	773,900	16.0	13.8	—	0.08	0.01	0.08	0.12	0.00	0.21	0.44	85
16. SALFORD ..	225,900	16.0	14.2	—	0.05	0.02	0.14	0.08	—	0.27	0.33	97
17. LIVERPOOL	862,900	21.6	14.2	—	0.44	0.01	0.22	0.22	0.00	0.29	0.40	94
18. BRADFORD	300,900	13.6	14.3	—	0.11	0.00	0.03	0.02	0.00	0.06	0.40	71
19. SUNDERLAND	187,600	21.8	14.4	—	0.58	0.01	0.06	0.14	0.01	0.27	0.42	99
20. PLYMOUTH	191,800 *	16.5	14.8	—	0.01	0.02	0.09	0.07	—	0.07	0.30	67

* Excluding Non-civilians.

TABLE V.
Deaths Registered at several groups of ages from different classes of Diseases during the year ended 31st December, 1931.

CAUSE OF DEATH	AGES.											DISTRICTS.					Total		
	0 to 1	1 to 5	5 to 15	15 to 25	25 to 35	35 to 45	45 to 55	55 to 60	60 to 65	65 to 75	75 to 85	85 and over	Ports- mouth	Portsea	Landport North	Landport Central		Mid- Southsea	Southsea
GRAND TOTALS	239	97	62	106	104	178	283	222	256	622	593	188	56	173	971	641	785	324	2950
CLASS I. Infectious and Parasitic Diseases.																			
Typhoid Fever ..	..	..	1	1	..	..	..	..	..	..	1	..	..	..	1	1	1	..	3
Measles ..	..	1	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	1
Scarlet Fever ..	1	3	7	..	1	..	..	..	..	..	..	..	1	1	3	5	1	1	12
Whooping Cough ..	9	11	1	..	..	..	..	..	..	..	..	..	1	1	11	3	3	2	21
Diphtheria ..	1	8	3	2	..	..	6	7	6	20	14	1	..	1	3	6	2	..	12
Influenza ..	..	2	4	2	2	1	..	..	..	..	..	1	..	1	21	12	21	9	65
Erysipelas ..	..	..	1	..	..	2	..	..	..	1	..	..	..	..	1	2	1	..	4
Encephalitis Lethargica ..	..	..	1	..	..	1	..	2	1	2	..	..	1	..	4	1	..	2	8
Cerebro Spinal Fever ..	1	4	1	..	2	1	..	1	..	..	..	..	..	1	1	2	5	1	10
Tuberculosis of the Res- piratory System..	..	..	3	38	40	51	36	5	8	5	3	..	5	16	60	44	51	13	189
Tuberculosis of the Central Nervous System ..	3	6	2	5	1	..	..	..	..	..	..	..	..	3	7	4	3	..	17
Tuberculosis of Intestines and Peritoneum ..	2	2	4	5	..	1	..	..	..	..	..	..	..	3	4	4	3	..	14
Tuberculosis of Joints ..	..	..	..	..	..	..	1	1	..	..	..	..	..	..	..	..	1	..	1
Tuberculosis of other Organs	..	..	1	..	..	1	1	..	..	..	..	..	..	..	1	1	1	..	3
Disseminated Tuberculosis	1	1	1	..	..	1	2	1	3	2	1	..	..	1	1	4	5	..	3
Syphilis ..	2	..	..	..	..	1	..	1	3	..	1	..	..	..	3	..	..	..	12
Purulent Infection, Septi- caemia ..	..	..	..	1	1	..	..	..	1	..	..	..	..	1	..	1	..	1	2
Malaria ..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	1	..	..	1
Other diseases due to Protozoa ..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	1
TOTAL	20	40	30	52	47	59	45	17	19	30	19	1	9	30	122	90	99	29	379

CLASS II.															
Cancer & other Tumours.															
Cancer of the Buccal Cavity	..	..	..	..	1	..	4	2	7	2	..	3	..	1	3
" Stomach, Liver, etc.	..	..	..	20	4	11	20	21	51	19	3	40	8	34	42
" Peritoneum, Intestines and Rectum	..	..	1	7	10	13	7	10	23	15	1	18	12	14	30
" Female Genital Organs	..	..	..	10	4	8	10	4	11	3	5	10	4	12	10
" Breast	..	..	..	3	5	12	3	5	7	3	2	10	4	3	14
" Skin	..	..	..	2	..	2	2	..	1	1	1	4	1	..	1
" Other or Unspecified Organs	..	2	1	4	4	13	4	4	17	9	1	21	11	12	12
Other Tumours (not malignant)	..	..	..	..	..	..	..	..	2	4	..	5	1	3	3
TOTAL	..	2	2	50	46	59	12	56	119	56	10	111	82	117	363
CLASS III.															
Rheumatism, Diseases of Nutrition and of Endocrine Glands and other General Diseases.															
Rheumatic Fever	..	..	3	2	..	1	2	..	2	..	..	5	1	2	12
Chronic Rheumatism, Osteo Arthritis and Gout	..	..	..	1	2	2	1	3	11	3	2	6	7	8	23
Diabetes	..	..	..	8	4	1	8	4	10	4	1	14	8	10	33
Diseases of the Thyroid Gland	..	..	2	1	2	1	1	2	2	..	..	1	3	3	8
Diseases of the Thymus	2	1	..	..	..	..	..	..	..	..	..	2	1	..	4
Other General Diseases	..	1	..	..	..	..	..	..	..	..	..	..	1	..	1
TOTAL	2	5	4	12	8	5	25	7	25	7	3	28	21	23	81
CLASS IV.															
Diseases of the Blood & Blood-forming Organs															
Anaemia, Chlorosis	1	..	..	..	1	..	..	4	4	4	..	4	4	4	15
Leukaemia, Lymphadenoma	..	..	1	2	..	..	2	..	..	..	..	1	2	..	4
TOTAL	1	..	1	2	1	..	2	1	4	4	..	5	6	4	19

CAUSE OF DEATH.	AGES.										DISTRICTS.						Total		
	0 to 1	1 to 5	5 to 15	15 to 25	25 to 35	35 to 45	45 to 55	55 to 60	60 to 65	65 to 75	75 to 85	85 and over	Ports-mouth	Portsea	Landport North	Landport Central		Mid-Southsea	Southsea
CLASS V.																			
Chronic Poisoning.																			
Alcoholism .. .. .	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	1	..	1
CLASS VI.																			
Diseases of the Nervous System & Sense Organs																			
Encephalitis .. .. .	..	1	..	1	1	2	..	1	..	..	..	..	1	..	..	3	2	..	6
Meningitis	2	2	2	1	..	1	1	1	1	..	..	..	..	..	4	4	1	2	11
Tabes Dorsalis (Locomotor Ataxy) .. .. .	..	..	..	..	..	..	1	..	1	2	..	..	..	1	..	..	3	..	4
Other Diseases of the Spinal Cord .. .. .	..	..	..	..	..	..	1	..	1	4	..	..	..	..	1	3	1	1	6
Cerebral Haemorrhage, Apoplexy .. .. .	..	1	..	..	..	..	20	10	27	59	65	9	2	11	68	42	49	19	191
Paralysis of Unstated Origin	..	..	..	..	..	..	..	2	..	3	3	..	..	..	2	1	3	2	8
General Paralysis of the Insane .. .. .	..	..	..	..	1	2	9	2	2	..	..	..	..	2	3	5	6	..	16
Other forms of Insanity .. .. .	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	1	..	1
Epilepsy .. .. .	..	..	..	..	3	4	2	2	..	3	1	..	..	1	8	2	3	1	15
Infantile Convulsions (under 5 years) .. .. .	..	2	..	..	..	..	..	2	1	2	3	1	..	..	2	1	2	1	2
Cerebral Softening .. .. .	..	..	..	..	..	..	..	2	..	..	..	..	..	..	5	1	2	1	9
Other Diseases of the Nervous System .. .. .	..	..	1	1	1	3	4	2	..	10	3	..	..	1	9	4	10	1	25
Diseases of the Ear and of the Mastoid Sinus .. .. .	..	1	1	1	1	..	1	1	..	..	..	..	1	..	1	3	1	..	6
TOTAL	2	7	4	4	8	12	39	23	33	38	75	10	4	16	103	68	82	27	300

CLASS VII.													
Diseases of the Circu- latory System.													
Pericarditis...	..	..	..	..	..	..	1	1	1	1	..	..	3
Acute Endocarditis and Myocarditis .. ..	..	..	2	..	..	..	..	..	..	..	..	..	10
Angina Pectoris .. ..	..	..	..	3	1	6	1	4	1	1	1	2	34
Other Diseases of the Heart	..	..	..	16	35	44	54	144	144	37	8	30	511
Aneurysm .. ..	..	..	..	..	3	3	4	3	3	..	1	1	14
Arterio Sclerosis .. ..	..	..	..	..	3	3	9	20	22	9	3	4	67
Gangrene .. ..	..	..	..	..	..	1	..	3	3	1	1	1	7
Embolism and Thrombosis	..	..	..	..	..	1	1	1	1	1	..	2	4
Diseases of the Veins	..	..	..	..	2	..	..	1	1	..	..	..	3
Other Diseases of the Cir- culatory System ..	1	..	..	..	1	..	..	..	..	..	..	1	2
TOTAL	1	..	2	21	52	59	75	197	177	49	15	37	655
CLASS VIII.													
Diseases of the Res- piratory System.													
Diseases of the Nasal	..	..	..	..	1	..	..	..	..	..	..	..	1
Fossae and Annexa ..	..	..	2	..	..	..	..	..	1	..	..	..	3
Diseases of the Larynx	..	..	2	4	7	6	8	41	65	22	1	7	176
Bronchitis	16	1	2	5	6	7	14	4	4	3	6	10	114
Broncho Pneumonia ..	41	25	2	1	5	6	9	9	6	2	1	13	67
Pneumonia, lobar or not otherwise defined ..	3	3	4	15	5	6	9	9	6	2	1	9	3
Pleurisy .. ..	..	..	..	1	1	..	..	..	1	..	..	..	16
Congestion and Haemorr- hagic infarct of Lung ..	..	..	..	..	2	..	3	2	5	4	..	1	10
Asthma .. ..	..	..	..	..	3	..	3	3	1	..	..	..	5
Other Diseases of the Res- piratory System ..	1	1	..	..	1	..	..	1	1	..	..	..	395
TOTAL	61	30	10	25	26	19	37	60	84	31	8	19	395

CAUSE OF DEATH	AGES.										DISTRICTS.					Total			
	0 to 1	1 to 5	5 to 15	15 to 25	25 to 35	35 to 45	45 to 55	55 to 60	60 to 65	65 to 75	75 to 85	85 and over	Portsmouth	Portsea	Landport North		Landport Central	Mid-Southsea	Southsea
CLASS IX.																			
Diseases of the Digestive System	1	1	..	..	..	..	2	..	..	..	..	..	..	1	..	..	..	..	2
Diseases of the Buccal Cavity and Annexa ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2
Diseases of the Pharynx and Tonsils	1	1	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	2
Ulcer of the Stomach and Duodenum .. ..	..	..	..	2	2	4	9	3	2	3	2	..	4	1	7	5	6	2	25
Other Diseases of Stomach and Enteritis	2	..	..	..	..	..	..	1	2	2	2	..	..	..	8	1	2	..	11
Diarrhoea and Enteritis (under 2 years)	20	4	..	..	..	..	..	..	..	..	..	..	..	3	8	7	6	..	24
Diarrhoea and Enteritis (over 2 years) .. ..	..	2	1	..	..	1	..	2	..	..	..	2	..	..	2	2	4	..	8
Appendicitis .. ..	..	1	3	2	2	3	2	4	3	2	1	..	..	..	6	6	7	4	23
Hernia, Intestinal Obstruction	1	1	2	1	1	2	3	6	3	5	3	1	..	4	10	8	4	3	29
Other Diseases of the Intestines .. ..	..	1	..	..	..	..	..	1	..	1	1	..	..	..	2	..	1	1	4
Cirrhosis of the Liver .. ..	..	..	..	..	..	2	2	3	1	3	2	..	..	..	5	3	3	2	13
Other Diseases of the Liver .. ..	..	..	..	..	2	1	..	1	2	2	3	1	..	1	7	3	1	..	12
Biliary Calculi .. ..	..	..	..	..	..	..	..	1	..	3	..	..	..	..	..	..	1	3	4
Diseases of the Pancreas .. ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
Peritonitis without stated Cause	1	..	..	..	..	..	1	..	..	2	..	1	..	..	1	..	2	2	5
TOTAL	25	10	6	5	7	13	19	22	13	23	13	7	4	10	56	36	38	19	163

CLASS X.															
Non-Veneral Diseases															
of the Genito-Urinary															
System and Annexa.															
Acute Nephritis ..	1	..	..	..	..	..	..	..	..	..	..	..	..	1	107
Chronic Nephritis ..	1	..	..	..	..	..	..	..	..	..	..	..	..	17	107
Other Diseases of the	..	..	..	..	..	..	..	..	..	..	..	..	..	1	8
Kidney and Annexa ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Calculi of the Urinary	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Passages.. ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diseases of the Bladder ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diseases of the Prostate ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Salpingitis and Pelvic	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Abscess .. ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Other Diseases of the	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Female Genital Organs..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
TOTAL															
..	..	1	2	2	11	14	8	12	41	33	13	2	35	29	36
137															
CLASS XI.															
Diseases of Pregnancy															
Childbirth and the Puer-															
peral State.															
Puerperal Haemorrhage ..	..	..	1	1	..	..	..	..	..	..	..	..	..	..	1
Puerperal Sepsis .. ..	..	..	1	..	1	..	..	..	..	..	..	..	..	..	2
Puerperal Albuminuria and	..	..	1	2	..	..	..	..	..	..	..	..	..	..	3
Convulsions .. ..	..	..	1	1	2	..	..	..	..	..	..	..	..	..	4
Other accidents of Child-	..	..	1	1	..	..	..	..	..	..	..	..	..	..	..
birth .. ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
TOTAL															
..	..	3	4	3	..	..	..	..	..	..	2	..	2	1	10
CLASS XII.															
Diseases of the Skin and															
Cellular Tissue.															
Carbuncle, Boil .. ..	..	..	..	..	1	1	..	..	1	..	1	..	1	..	3
Cellulitis, Acute Abscess ..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	1
Other Diseases of the Skin	1	..	..	..	1	..	..	..	..	2	..	..	1	1	4
and its Annexa.. ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
TOTAL															
1	..	..	..	2	2	2	..	..	1	2	..	..	3	1	8

CAUSE OF DEATH.	AGES.										DISTRICTS.						Total		
	0 to 1	1 to 5	5 to 15	15 to 25	25 to 35	35 to 45	45 to 55	55 to 60	60 to 65	65 to 75	75 to 85	85 and over	Ports-mouth	Portsea	Landport North	Landport Central		Mid-Southsea	Southsea
CLASS XIII. Diseases of the Bones and Organs of Locomotion. Diseases of the Bones .. Diseases of the Joints ..	..	1	1	..	..	..	..	..	..	..	..	..	..	..	1	1	..	..	..
	..	..	..	1	..	1	..	..	..	..	..	..	..	..	..	2	..	..	..

TOTAL	..	1	1	1	..	1	..	..	..	..	..	..	..	..	1	3	..	..	4
CLASS XIV. Congenital Malformations. Congenital Malformations	16	1	..	..	..	..	..	..	..	..	..	..	..	..	11	1	4	..	17
CLASS XV. Diseases of Early Infancy Congenital Dribility, Sclerema Icterus .. Premature Birth, Injury at Birth .. Other Diseases peculiar to early infancy ..	24	1	..	..	..	..	..	..	..	..	..	..	1	3	7	8	5	1	25
	71	..	..	..	..	..	..	..	..	..	..	..	2	12	25	16	9	7	71
	13	..	..	..	..	..	..	..	..	..	..	..	..	..	4	4	5	..	13
	TOTAL	108	1	3	15	36	28	19	8	109
CLASS XVI. Old Age. Old Age ..	..	..	..	..	..	..	..	..	2	25	108	58	1	5	52	47	64	24	193

CLASS XVII. Deaths from Violence.																			
Suicide—Solid or Liquid Poisons ..	10	2	2	1	5	1	2	1	2	1	1	1	1	1	2	2	2	115	
Poisonous Gas ..	13	..	4	6	2	..	..	..	..	..	..	..	..	..	..	..	..	..
Hanging ..	2	1	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..
Drowning ..	3	2	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..
Firearms ..	5	3	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Cutting or Piercing ..	3	..	1	..	2	..	..	..	..	..	..	..	..	..	..	..	..	..
Accident : Poisoning by Venomous Animals ..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Other Poisons ..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Burns ..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mechanical Suffocation ..	6	..	1	..	2	..	..	..	..	..	..	..	..	..	..	..	..	..
Absorption of Irrespirable or Poisonous Gas ..	2	..	1	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..
Drowning ..	4	2	..	..	2	..	..	..	..	..	..	..	..	..	..	..	..	..
Fall ..	6	1	3	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..
Crushing ..	26	2	7	..	7	..	..	..	..	..	..	..	..	..	..	..	..	..
Homicide : Cutting or Piercing ..	28	2	2	..	14	..	..	..	..	..	..	..	..	..	..	..	..	..
By other means ..	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Other Violence ..	3	..	1	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..
TOTAL	115	16	23	24	40	10	2	6	15	13	15	6	2	10	40	24	23	16	115
CLASS XVIII. Ill-defined Causes.																			
Ill-defined Causes ..	1	..	1	1
GRAND TOTAL	239	324	785	641	971	173	56	188	593	622	593	188	56	173	971	641	785	324	2950

SUMMARY OF TABLE V.

Class	DISEASES.	Number of Deaths
I.	Infectious and Parasitic Diseases	379
II.	Cancer and other Tumours	363
III.	Rheumatism, Diseases of Nutrition and of Endocrine Glands and other General Diseases	81
IV.	Diseases of the Blood and Blood forming Organs ..	19
V.	Chronic Poisoning	1
VI.	Diseases of the Nervous System and Sense Organs ..	300
VII.	Diseases of the Circulatory System	655
VIII.	Diseases of the Respiratory System	395
IX.	Diseases of the Digestive System	163
X.	Non-Venereal Diseases of the Genito-Urinary System and Annexa	137
XI.	Diseases of Pregnancy, Childbirth and the Puerperal State	10
XII.	Diseases of the Skin and Cellular Tissue	8
XIII.	Diseases of the Bones and Organs of Locomotion ..	4
XIV.	Congenital Malformations	17
XV.	Diseases of Early Infancy	109
XVI.	Old Age	193
XVII.	Deaths from Violence	115
XVIII.	Ill-defined Diseases	1

TABLE VI.

Table showing the Numbers and Death-rates per 1,000 of Population from the Seven Principal Zymotic Diseases, from Lung Diseases (excluding Phthisis), from Phthisis, and from all causes, during each Quarter and for the whole year 1931. (Civil population only.)

Quarter ending	The Seven Principal Zymotic Diseases * All ages		Lung Diseases (excepting Phthisis) †		Phthisis		From all Causes	
	No.	Rate per 1000	No.	Rate per 1000	No.	Rate per 1000	No.	Rate per 1000
1931								
March 31st ..	32	0.55	198	3.46	63	1.10	1008	17.6
June 30th ..	22	0.38	76	1.32	40	0.69	684	11.9
September 30th ..	10	0.17	38	0.66	41	0.71	586	10.2
December 31st ..	9	0.15	83	1.45	45	0.78	672	11.7
Totals ..	73	0.31	395	1.72	189	0.82	2950	12.8

* Includes Small-pox, Measles, Scarlet Fever, Whooping Cough, Diphtheria, Enteric or Typhoid Fever, and Diarrhoea.

† Includes Laryngitis, Emphysema, Asthma, Bronchitis, Pneumonia, Pleurisy, and other Diseases of the Respiratory System.

TABLE VII.

Showing the number of Deaths in the Years 1861 to 1931 from the
Seven Principal Zymotic Diseases.

Year	Popula- tion	DISEASES							TOTALS	
		Small- pox	Measles	Scarlet Fever	Diph- theria	Whoop'g Cough	Fever	Diarr- hoea	Numbers	Rate per 1000 living
1861	95220	1	3	5	6	11	111	152	289	3.06
1862	96960	..	42	225	20	36	128	71	522	5.39
1863	98731	12	80	134	24	16	37	68	391	3.96
1864	100531	228	6	17	17	48	72	118	506	4.95
1865	102363	3	14	20	7	50	74	122	290	3.09
1866	104230	1	16	34	26	46	85	117	325	3.16
1867	106130	..	82	15	4	23	74	140	338	3.18
1868	108064	..	46	107	18	57	119	117	464	4.86
1869	110034	1	57	295	18	26	105	100	602	5.47
1870	112040	1	39	119	13	46	91	121	430	3.83
1871	114083	39	42	30	10	66	72	100	359	3.28
1872	114970	514	52	5	21	17	112	113	834	7.25
1873	116380	45	16	12	15	19	97	106	310	2.66
1874	117810	2	56	36	19	104	101	149	467	3.90
1875	119260	..	54	47	18	8	103	141	371	3.11
1876	120730	1	109	457	11	42	71	131	822	6.80
1877	122210	..	12	36	5	59	87	153	352	2.63
1878	123710	..	36	16	1	92	96	170	411	3.32
1879	125250	..	10	11	4	9	62	73	169	1.35
1880	126830	..	42	9	20	48	70	192	381	3.00
1881	128691	..	7	25	205	66	60	73	436	3.38
1882	131535	..	156	40	106	36	107	111	556	4.22
1883	134441	1	10	16	20	54	93	80	274	2.03
1884	137412	..	164	9	41	9	58	116	397	2.88
1885	140448	..	7	5	42	44	93	123	314	2.23
1886	143552	1	197	18	65	102	124	191	698	4.86
1887	146724	3	8	26	47	41	53	151	329	2.34
1888	149966	..	50	12	17	27	27	98	231	1.53
1889	153279	2	8	11	33	92	32	122	300	1.95
1890	156667	..	4	19	47	39	50	105	264	1.69
1891	160167	..	223	9	23	38	33	73	399	2.49
1892	163628	..	38	18	26	87	42	99	310	1.89
1893	165153	..	120	32	29	36	54	247	518	3.13
1894	167878	4	139	14	34	41	29	93	554	3.18
1895	170672	..	39	7	18	64	37	238	403	2.36
1896	173565	..	126	19	20	60	28	157	410	2.36
1897	176497	..	35	11	22	65	44	286	463	2.62
1898	179500	..	73	31	54	42	44	183	427	2.38
1899	182576	..	50	22	120	62	75	316	645	3.35
1900	185725	..	3	11	104	87	93	159	457	2.46
1901	188885	..	82	15	70	21	43	311	542	2.87
1902	193969	..	70	14	62	92	54	159	451	2.32
1903	198049	..	17	27	75	34	23	115	291	1.46
1904	202171	..	1	22	71	76	34	213	417	2.06
1905	206336	..	218	11	69	45	18	173	534	2.58
1906	210546	..	8	3	60	63	17	226	377	1.79
1907	214797	..	169	4	61	57	30	60	381	1.77
1908	219095	..	14	8	49	55	26	48	200	0.91
1909	223436	..	104	19	66	27	33	54	303	1.35
1910	227821	..	64	30	56	52	39	54	295	1.29
1911	232221	..	28	21	72	40	26	290	477	2.05
1912	236732	..	95	29	124	52	22	57	379	1.60
1913	241256	..	25	20	87	16	23	112	283	1.17
1914	245827	..	39	5	79	50	29	71	273	1.11
1915	*202141	..	123	17	68	36	18	52	314	1.55
1916	*197843	..	15	3	52	46	10	65	191	0.96
1917	*198527	..	44	7	40	36	4	48	179	0.90
1918	*203396	..	52	4	48	43	5	40	192	0.94
1919	*224846	..	14	2	42	20	..	37	115	0.51
1920	*233805	..	32	3	40	41	1	22	139	0.59
1921	*233929	..	23	13	30	21	3	87	177	0.75
1922	*236630	..	12	12	48	42	3	32	149	0.61
1923	*230718	..	39	5	46	9	11	31	141	0.61
1924	*232000	..	16	8	18	38	4	21	105	0.44
1925	*232900	..	20	6	43	30	5	19	123	0.52
1926	*231500	..	11	7	66	17	3	36	140	0.60
1927	*232100	..	40	3	47	18	..	15	123	0.52
1928	*240700	..	9	3	53	12	2	22	101	0.41
1929	*242000	..	1	7	24	19	2	67	120	0.49
1930	*242000	..	101	9	16	6	1	40	173	0.71
1931	*228900	..	1	12	12	21	3	24	73	0.31

* Civil population only.

TABLE VIII.
VACCINATION RETURNS FOR PAST THIRTY YEARS.

Year	No. of Births registered from 1st Jan. to 31st Dec.	Successfully Vaccinated	Insusceptible to Vaccination	Had Small-pox	Dead Unvaccinated	Postponement by Medical Certificate	Removed to Districts the Vacc. Officer of which has been appraised	Removed to places to places unknown	No. of these births remaining	No. in respect of which certificates of conscientious objections have been received
1902	5192	4509	31	..	547	26	29	19	..	31
1903	5446	4831	12	..	471	23	35	24	..	50
1904	5609	4916	23	..	556	28	23	17	1	45
1905	5637	5015	15	..	477	25	35	26	..	44
1906	5891	5117	35	..	552	43	47	28	2	67
1907	5863	5069	20	..	495	40	63	25	2	149
1908	5998	5120	35	..	473	37	43	24	..	266
1909	5861	4938	46	..	430	40	33	26	2	346
1910	5809	4667	15	..	449	40	50	21	5	562
1911	5788	4376	57	..	510	41	43	42	6	713
1912	5658	4314	26	..	389	33	57	34	5	800
1913	5874	4321	35	..	409	44	48	27	12	978
1914	5749	4235	42	..	409	59	74	31	9	890
1915	4997	3785	29	..	288	47	50	18	11	769
1916	5208	3875	31	..	321	39	56	29	9	848
1917	4613	3405	13	..	256	32	54	37	6	810
1918	4810	3459	38	..	263	38	118	30	5	859
1919	5195	3752	13	..	302	26	76	38	4	984
1920	6600	4790	38	..	303	30	116	29	5	1289
1921	5662	4083	18	..	265	32	82	26	4	1152
1922	5528	4105	11	..	269	23	61	18	2	1039
1923	5327	4243	28	..	239	40	86	15	2	674
1924	5089	4004	21	..	243	26	45	16	3	731
1925	4884	3772	15	..	223	24	54	14	2	780
1926	4637	3673	42	..	185	26	53	14	2	642
1927	4353	3418	35	..	157	28	48	16	3	648
1928	4579	3541	38	..	194	27	63	20	5	691
1929	4518	3395	86	..	222	33	52	20	2	708
1930	4407	3232	28	..	174	29	70	35	12	827
1931 (to June)	2247	1569	19	..	97	55	33	40	49	385

TABLE IX.
VACCINATION RETURNS—1st January to 30th June, 1931.

Registration Sub-Districts comprised in the Vaccination Officer's District.	Number of Births returned in the Birth List Sheets as registered from 1st January to 30th June, 1931	Number of these Births duly entered by 31st Jan., 1931 in Columns 1, 2, 4 and 5, of the Vaccination Register Birth List Sheets, viz. :					Number of these Births which on 31st January, 1932, remained unentered in the Vaccination Register on account (as shown by Report Book) of				Number of these Births remaining on 31st January, 1932, neither duly entered in the Vaccination Register (columns 3, 4, 5, 6 & 7 of this Return) nor temporarily accounted for in the Report Book (columns 8, 9 and 10 of this Return).
		Col. 1 Success- fully Vaccin- ated	Col. 2		Col. 4 Number in respect of whom Certifi- cates of Con- scientious Objection have been received	Col. 5 Dead Unvac- cinated	Postpone- ment by Medical Certificate	Removal to Districts the Vaccination Officer of which has been duly apprised	Removal to places un- known, or which cannot be reached ; and cases not having been found		
			Insuscep- tible of Vaccin- ation	Had Small- Pox							
1	2	3	4	5	6	7	8	9	10	11	
1. North End and Buckland	703	484	4	..	138	20	9	4	14	30	
2. Kingston and East Southsea	499	329	5	..	93	22	16	12	12	10	
3. Portsea and Landport	467	345	1	..	65	27	14	4	8	3	
4. Portsmouth and Mid-Southsea..	578	411	9	..	89	28	16	13	6	6	
Totals	2247	1569	19	..	385	97	55	33	40	49	
VACCINATION OF CHILDREN whose Births were registered in this District from Jan. 1st to Dec. 31st, 1930 inclusive.											
1. North End and Buckland	1279	925	9	..	270	39	4	21	7	4	
2. Kingston and East Southsea	972	686	8	..	201	41	10	14	10	2	
3. Portsea and Landport	1032	792	2	..	154	52	5	15	10	2	
4. Portsmouth and Mid-Southsea..	1124	829	9	..	202	42	10	20	8	4	
Totals	4407	3232	28	..	827	174	29	70	35	12	

INFECTIOUS DISEASES.—The following cases of infectious diseases were notified during the year :—

* Disease	Cases Notified	Admitted to Hospital	Total Deaths
Diphtheria	345	340	12
Scarlet Fever	601	530	12
Enteric Fever	11	5	3
Puerperal Fever	8	6	2
Puerperal Pyrexia	22	2	—
Acute Primary and Influenzal Pneumonia	33	6	65
Cerebro-spinal Meningitis	11	11	10
Poliomyelitis	1	1	—
Encephalitis Lethargica	6	2	8
Erysipelas	72	26	4
Malaria	1	—	1
Ophthalmia Neonatorum	20	—	—
Tuberculosis	475	253	227

All the above cases have been visited, and such steps as were possible taken with a view to the prevention of the spread of the disease.

The following are particulars with reference to the cases of ophthalmia neonatorum (inflammation in the eyes of newly born babies) :

OPHTHALMIA NEONATORUM.

CASES			Vision Un- impaired	Vision Im- paired	Total Blindness	Deaths.
Notified	TREATED					
	At Home	At Hospital				
20	12	8	20	Nil	Nil	Nil

An interesting and satisfactory feature is the fact, as will be seen from Table VII, that this year the deaths from the principal zymotic diseases were fewer than in any previous year for which records exist. Especially there has been a remarkable decline in the prevalence of diphtheria, only 345

*The analysis of the above cases into age groups is given in Table II of the Appendix

cases being notified compared with 605 and 706 in the two previous years ; there were 12 deaths only which is the lowest number for over 50 years.

Scarlet fever caused 12 deaths compared with 9 in the previous year. There was one death from measles compared with 101 in the previous year, and 21 deaths from whooping cough.

There were no cases of small-pox, several cases with suspicious rashes were reported to me, but on visiting they were found to be cases of chicken-pox. Particulars as to vaccination are given in Tables VIII and IX.

The proposals for the extension of the Milton Hospital for Infectious Diseases referred to in my two previous Annual Reports were postponed for the present, owing to the need for economy. As these form an integral part of the complete scheme of medical services for the City, I hope it may be possible to proceed with them at an early date. I am glad to report that provision is now being made for the Medical Superintendent to reside at the Hospital, and the question of the erection of an operating theatre is now under consideration.

TABLE X.

WEEKLY RETURN of cases of Infectious Disease.

Week ending 1931	Small-pox	Scarlet Fever	Diphtheria	Enteric Fever	Pneumonia	Puerperal Fever	Puerperal Pyrexia	Cerebro-spinal Fever	Encephalitis Lethargica	Acute Poliomyelitis	Erysipelas	Ophthalmia Neonatorum	Malaria	Tuberculosis		Total
														Pul- monary	Non- Pul- monary	
Jan. 10	..	13	8	..	1	..	..	..	..	..	3	..	..	5	..	30
" 17	..	14	13	1	..	1	1	..	..	..	4	..	..	8	1	43
" 24	..	13	7	..	..	1	..	..	..	..	..	..	..	8	1	30
" 31	..	12	14	1	2	1	1	..	..	..	4	1	..	2	..	38
Feb. 7	..	12	12	..	1	1	..	2	..	..	1	..	..	11	3	43
" 14	..	21	7	..	2	..	..	..	..	..	1	..	..	5	1	37
" 21	..	13	12	..	1	..	1	1	1	..	..	1	..	8	2	40
" 28	..	15	11	..	7	..	2	1	..	..	1	..	..	17	3	57
Mar. 7	..	10	8	..	1	..	..	2	..	..	1	..	..	6	..	28
" 14	..	13	11	..	..	..	..	..	1	..	3	1	..	11	1	41
" 21	..	15	8	..	2	..	..	1	..	..	1	..	..	11	2	40
" 28	..	11	9	..	1	1	1	..	..	..	..	..	1	11	2	37
April 4	..	10	7	..	3	..	..	..	..	..	2	..	..	2	..	24
" 11	..	11	4	..	1	..	..	..	1	..	4	..	..	4	1	26
" 18	..	14	5	..	..	..	..	..	..	..	3	1	..	15	2	40
" 25	..	20	6	..	..	..	..	..	..	..	1	1	..	9	3	40
May 2	..	10	4	..	1	..	2	..	..	..	1	2	..	6	..	26
" 9	..	18	6	..	..	..	..	..	..	..	..	..	..	9	1	34
" 16	..	17	17	..	..	..	1	..	..	..	..	..	..	13	2	50
" 23	..	11	10	..	..	..	..	..	..	..	1	..	..	15	..	37
" 30	..	14	1	..	1	..	..	..	..	..	2	2	..	4	2	26
June 6	..	12	3	..	..	..	..	..	..	..	..	..	..	8	..	23
" 13	..	8	4	..	..	..	..	..	..	..	..	..	..	13	1	26
" 20	..	8	8	..	..	..	1	..	..	..	..	..	..	8	1	26
" 27	..	7	5	..	..	..	1	..	..	..	1	1	..	9	1	25
July 4	..	15	4	..	..	..	1	..	1	..	..	2	..	12	3	38
" 11	..	8	2	..	1	..	1	..	..	..	..	..	..	9	..	21
" 18	..	10	5	..	..	..	..	..	..	..	3	..	..	4	..	22
" 25	..	18	3	..	..	..	..	..	..	..	..	..	..	14	..	35
Aug. 1	..	7	2	1	..	..	..	..	..	..	..	..	..	5	..	15
" 8	..	5	6	1	1	1	..	..	..	..	1	..	..	7	1	23
" 15	..	11	6	..	..	..	..	..	..	..	4	..	..	6	..	27
" 22	..	13	..	..	..	..	1	..	..	..	1	..	..	14	..	29
" 29	..	10	4	..	..	..	..	..	..	..	2	..	..	4	1	21
Sept. 5	..	8	10	..	..	..	1	..	..	1	..	1	..	1	..	22
" 12	..	4	3	2	1	..	2	..	..	..	..	..	..	..	..	12
" 19	..	6	5	1	1	..	1	..	..	..	3	..	..	4	4	28
" 26	..	8	2	1	1	2	..	..	..	..	1	..	..	7	3	25
Oct. 3	..	18	8	..	1	..	..	..	..	..	..	..	..	11	1	39
" 10	..	17	10	1	..	..	..	1	..	..	3	..	..	8	..	40
" 17	..	6	2	1	..	..	2	1	..	..	..	..	..	6	..	18
" 24	..	13	6	..	..	..	1	..	..	..	1	..	..	11	1	33
" 31	..	13	9	..	..	..	..	..	..	..	5	..	..	7	..	34
Nov. 7	..	13	7	..	..	..	..	..	..	..	..	..	..	16	1	37
" 14	..	4	15	..	..	..	..	..	1	..	5	3	..	13	..	41
" 21	..	7	9	..	1	..	..	1	..	..	1	1	..	4	..	24
" 28	..	9	4	1	..	..	..	..	..	..	2	..	..	7	..	23
Dec. 5	..	4	3	..	1	..	..	..	..	..	2	..	..	10	1	21
" 12	..	13	6	..	..	..	..	1	..	..	2	..	..	5	..	27
" 19	..	12	4	..	..	..	..	..	..	..	1	2	..	10	2	31
" 26	..	11	6	..	..	..	..	..	1	..	..	..	..	4	..	22
Jan. 2	..	16	4	..	1	..	1	..	..	..	1	1	..	7	..	31
TOTALS	..	601	345	11	33	8	22	11	6	1	72	20	1	427	48	1606

TUBERCULOSIS.—A complete summary of all the work done during the year in connection with tuberculosis will be found in the following ten tables.

Notifications.—Reference to Table A will reveal that although the number of notifications of pulmonary tuberculosis received during 1930 was exactly the same as that of the previous year, the relative proportion of males and females has considerably altered, and for the first time since 1928, the female notifications preponderate.

The number of non-pulmonary notifications shows a welcome decrease, *i.e.*, 37, but whether this is due to actual diminution in the incidence of this type of tuberculosis or less strict observance by institutions and medical practitioners of the rules with regard to notification of cases is impossible to say at present.

Deaths.—It is pleasing to be able to record a reduction in the number of deaths, namely, 227 as compared with 248 during 1930 and, as will be seen from Table J, the direction of the graph is again downwards, after an upward trend in each of the two preceding years. Despite this reduction, the death rate from all forms of tuberculosis per 1,000 of the population (0.98) is still higher than that for England and Wales (0.89). This is attributable in part to the fact that, as in most seaside resorts, the mortality from tuberculosis is weighted by the deaths of a considerable number of people suffering from or threatened with the disease, who come to reside in Southsea from other parts for the benefit of their health.

Of the total number of 227 deaths registered from all forms of tuberculosis, 37 or 16.2 per cent. had not been notified during life as suffering from this disease, as against 30 or 12 per cent. during 1930.

Institutional Accommodation for Tuberculosis.—Institutional treatment was provided for 349 cases as compared with 367 during the previous year. It will be noted from Table I, that an effort had been made to provide more accommodation at our own Sanatoria and to reduce expense by sending fewer cases to outside sanatoria. At the beginning of the year it was decided to add 12 Papworth shelters for men at Langstone Sanatorium, and 9 of these had been erected by the end of the year.

Treatment.—Gold treatment by sanocrysin was administered to one male patient with excellent results at first, but later was followed by retrogression. Pneumo-thorax treatment or collapse therapy, at present the most effective form of treatment of pulmonary tuberculosis, continued to be practised during the year, and 4 persons attended the Dispensary every 2 or 3 weeks for refills.

TUBERCULOSIS.

TABLE A.

NEW CASES AND MORTALITY DURING 1931.

Age Periods	* NEW CASES				DEATHS			
	Pulmonary		Non-Pulmonary		Pulmonary		Non-Pulmonary	
	M.	F.	M.	F.	M.	F.	M.	F.
0 to 1	1	—	1	3	—	—	1	5
1 „ 5	1	2	9	8	—	—	5	4
5 „ 10	11	11	7	4	—	—	3	3
10 „ 15	12	15	7	4	1	2	2	—
15 „ 20	14	23	3	5	5	11	1	5
20 „ 25	32	40	—	3	12	10	2	2
25 „ 35	57	61	2	2	25	15	1	—
35 „ 45	49	40	1	2	29	22	2	—
45 „ 55	26	29	1	2	20	16	—	1
55 „ 65	16	8	—	—	10	3	1	—
65 & upwards ..	5	6	1	—	4	4	—	—
TOTALS	224	235	32	33	106	83	18	20

* Includes primary notifications and new cases which came to the knowledge of the Medical Officer of Health by other means.

Out of the total number of 227 deaths registered from all forms of tuberculosis, 37, or 16.2 per cent., had not been notified during life as suffering from this disease.

Further particulars of the work done in connection with tuberculosis are given in the following tables :—

TABLE B.
Giving the results of the examination of patients at the Dispensary.

	Tubercular	Not Tubercular	Pre-Tubercular	Observation	Total
Adults	245	97	0	6	348
Children	58	106	2	3	169
TOTAL ..	303	203	2	9	517

TABLE C. Table of Occupations of Adult Patients found to be Tubercular.								
Ex-Service .. ..	..	..	..	..	..	..	..	7
Household Occupations ..	..	..	..	..	..	..	..	90
Invalided Service .. ..	..	..	..	..	..	..	..	29
Office and Shop Workers ..	..	..	..	..	..	..	..	18
Skilled Artisans and Factory Workers ..	..	..	..	..	..	..	..	30
Labourers .. ..	..	..	..	..	..	..	..	21
Transport and Allied Workers ..	..	..	..	..	..	..	..	16
Teaching and other Professions ..	..	..	..	..	..	..	..	3
Nurses .. ..	..	..	..	..	..	..	..	3
Merchant Service .. ..	..	..	..	..	..	..	..	5
Amusements .. ..	..	..	..	..	..	..	..	4
Restaurant and Licensed Trade ..	..	..	..	..	..	..	..	11
No Occupation .. ..	..	..	..	..	..	..	..	5
Police .. ..	..	..	..	..	..	..	..	1
Immigrant .. ..	..	..	..	..	..	..	..	1
Agriculture .. ..	..	..	..	..	..	..	..	1
TOTAL ..								245

TABLE D.
Showing particulars of 303 Patients found to be Tubercular.
Age and Sex Table—ADULTS.

	16-19	20-29	30-39	40-49	50-59	60 and over	Total
Pulmonary .. Males	11	40	33	24	12	3	123
Females	15	61	22	8	9	1	116
Non-Pulmonary Males	1	1	1	—	—	—	3
Females	—	1	1	1	—	—	3
TOTAL ..	27	103	57	33	21	4	245

Age and Sex Table—CHILDREN.

	0-4	5-6	7-8	9-10	11-12	13-15	Total
Pulmonary .. Males	2	4	2	4	2	6	20
Females	—	2	3	2	4	6	17
Non-Pulmonary Males	1	3	3	1	3	1	12
Females	3	1	1	3	—	1	9
	6	10	9	10	9	14	58

TABLE E.

Showing the number of cases of Pulmonary and Non-pulmonary Tuberculosis examined at the Dispensary.

	Pulmonary	Non-Pulmonary	Total
ADULTS	239	6	245
CHILDREN	37	21	58
TOTAL	276	27	303

TABLE F.

Showing the Distribution of the Disease in the Non-pulmonary Cases examined at the Dispensary.

	Adults	Children	Total
Joint and Bone	4	10	14
Glands	1	6	7
Abdominal	—	3	3
Genito-Urinary	—	—	—
Eyes	1	1	2
Skin	—	1	1
	6	21	27

TABLE G.

Showing the Number of Patients in each of the Three Stages of the Disease ('Turban's Classification).

	Stage I.	Stage II.	Stage III.	Total
Adults	55	60	124	239
Children	13	8	16	37
Totals	68	68	140	276

TABLE H.
LANGSTONE SANATORIUM.

	Males	Females	Children		Totals
			M.	F.	
In Langstone, Dec. 31st, 1930	8	4	7	3	22
Admitted during 1931 ..	51	34	18	16	119
TOTALS	59	38	25	19	141
Discharged during 1931 ..	52	32	23	14	121
In Langstone, Dec. 31st, 1931	7	6	2	5	20

TABLE I.

Total Number of Patients treated at various Sanatoria, Hospitals and Colonies during 1931.

Sanatorium, Hospital or Colony	Resident at beginning of year	Admitted during year	Discharged during year	Remaining end of year	Totals
Langstone Sanatorium	12	88	87	13	100
Beach Lodge	10	31	34	7	41
Milton Hospital	29	108	114	23	137
Royal National Sanatorium, Bournemouth	1	1	2	—	2
Royal National Hospital for Consumption, Ventnor ..	3	10	9	4	13
Margate Sea Bathing Hospital	—	1	—	1	1
Fairlight Sanatorium	2	—	2	—	2
Lord Mayor Treloar Cripples' Hospital	30	11	22	19	41
King George V Sanatorium for Sailors, Bramshott ..	9	1	10	—	10
Brompton	—	1	1	—	1
Sailors' and Soldiers' Home, Eastbourne	—	1	1	—	1
	96	253	282	67	349

TABLE J.

Chart showing Deaths from Pulmonary Tuberculosis per 10,000 population since 1885.

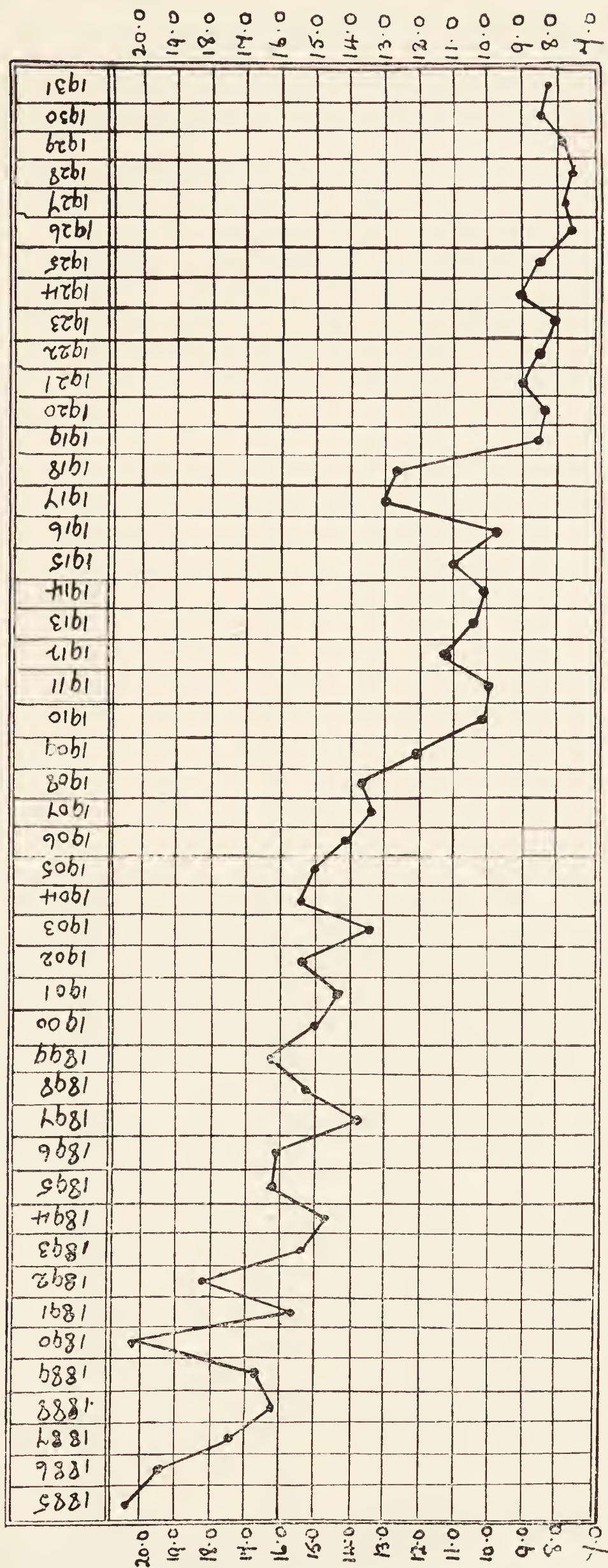


TABLE K.

Table showing the number of Deaths and Death-rates per 1,000 living from
TUBERCULAR DISEASES for Fifty-Three Years (1879 to 1931).

Year	(1) Pulmonary Tuberculosis		(2) Tubercular Meningitis Hydrocephalus Deaths	(3) Other Forms of Tuberculosis Deaths	Totals of Cols. 2 and 3	
	Deaths	Rate			Deaths	Rate
1879	271	2.05	44	58	102	.77
1880	234	1.74	49	81	130	.96
1881	275	2.14	44	61	105	.81
1882	269	2.07	33	67	100	.76
1883	262	1.96	41	72	113	.84
1884	292	2.12	34	62	96	.69
1885	290	2.06	36	54	90	.64
1886	285	1.98	38	85	123	.86
1887	261	1.77	41	95	136	.92
1888	240	1.60	38	90	128	.85
1889	251	1.63	35	93	128	.83
1890	319	2.03	37	57	94	.60
1891	252	1.57	41	86	127	.79
1892	308	1.89	31	51	82	.50
1893	254	1.53	32	59	91	.55
1894	241	1.43	21	50	71	.42
1895	280	1.64	43	50	93	.54
1896	283	1.63	51	55	106	.61
1897	245	1.38	39	33	72	.39
1898	277	1.54	37	57	94	.52
1899	295	1.61	40	64	104	.57
1900	286	1.53	42	53	95	.51
1901	278	1.47	37	91	128	.67
1902	308	1.58	31	51	82	.42
1903	269	1.35	35	34	69	.34
1904	321	1.58	44	32	76	.37
1905	314	1.52	42	25	67	.32
1906	306	1.45	38	36	74	.35
1907	282	1.31	47	36	83	.38
1908	300	1.36	39	38	77	.35
1909	272	1.21	41	33	74	.33
1910	249	1.09	40	23	63	.28
1911	239	1.02	36	23	59	.25
1912	267	1.13	30	46	76	.32
1913	264	1.08	41	40	81	.33
1914	249	1.01	33	52	85	.34
*1915	233	1.15	51	69	120	.59
*1916	188	0.95	39	48	87	.43
*1917	269	1.35	38	62	100	.50
*1918	261	1.28	23	45	68	.33
*1919	197	0.88	25	37	62	.27
*1920	197	0.84	19	36	55	.23
*1921	211	0.90	22	26	48	.20
*1922	207	0.87	17	38	55	.23
*1923	191	0.82	21	16	37	.16
*1924	222	0.93	18	36	54	.23
*1925	204	0.87	27	23	50	.21
*1926	183	0.79	18	20	38	.16
*1927	182	0.78	27	24	51	.22
*1928	179	0.74	26	23	49	.20
*1929	192	0.79	26	9	35	.14
*1930	208	0.85	26	14	40	.16
*1931	189	0.82	17	21	38	.16

* Calculated on estimated civil population.

VENEREAL DISEASE.—Details of the work carried out by Dr. A. Cambell and his Staff at the centre for the Treatment of Venereal Disease at the Royal Portsmouth Hospital will be found in the usual tables following.

It is difficult to exaggerate the value to the City of the work, both curative and preventive, which is carried out at the V.D. Centre. I refer not only to the treatment of patients suffering from recent attacks of venereal disease, but particularly to the treatment of children found to be suffering from inherited disease. In numerous such cases blindness has been prevented, other physical defects remedied, and permanent disability avoided.

I have often heard it suggested that the venereal disease rate in Portsmouth is high compared with other large towns. This is however the very opposite of the truth. As venereal disease is not a notifiable disease, it is not possible to obtain an exact return of all the cases which occur, the only available figures upon which to base our opinion are the numbers of new cases which attend the V.D. Centres in the various towns. From a return of the new patients who in 1930 attended the V.D. Clinics in the twenty largest towns of the country (excluding London) it is found that the attack rate in Portsmouth is only 1.3 per 1,000 population. This is the lowest figure recorded in any of the other large towns except two, where it is 1.1. The average attack rate in all the largest towns is 2.2, and in one large town it was as high as 6.4. Without claiming undue credit for the special steps which have for some years been taken in this City for the prevention of venereal disease, I think in view of these figures that it must be concluded that they have not been without effect.

Dr. Cambell submits the following statement in respect of the work at the Treatment Centre :—

During 1931, new patients and attendances were less by 100 and 761 respectively. The reduction was more marked in the last quarter of the year and is probably connected with the industrial depression. Promiscuity is not so likely to happen in times of unemployment when there is less money to be spent on alcohol. Whatever the reason may be, the number of cases in the acute stage was smaller than it has been for some years.

The work of the Centre is concerned with prevention of disease as well as treatment. The history of every new case is

enquired into, an attempt is made to discover the source of infection, and, if possible, to procure that person's attendance at the Clinic for examination. Sometimes there are many difficulties in the way of bringing this about, especially concerning young girls who are not of the prostitute class and live at home with their parents ; inevitably a number of them must go untreated. They may be infectious for a considerable time and even if they do not spread the disease, later on they must suffer from serious complications. In the case of a congenital syphilitic, every member of the family is subjected to a blood test, both parents and other children, an investigation which often reveals several infected persons in the family. Altogether 131 people were sent for, and 50 were found to require treatment.

Thirty-four new cases of congenital syphilis were treated during the year. There were only two cases of gonorrhœal vaginitis in children.

The following Table, prepared for the Ministry of Health, gives details of the work carried out at the Centre during the year :—

RETURN RELATING TO ALL PERSONS WHO WERE TREATED AT THE
TREATMENT CENTRE DURING THE YEAR ENDED 31st DECEMBER, 1931.

	Syphilis		Soft Chancre		Gonorr- hoea		Conditions other than Venereal		Totals		
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Total
1. Number of cases on 1st January under treatment or observation ..	206	162	2	—	117	17	12	13	337	192	529
2. Number of cases removed from the register during any previous year which returned during the year under report for treatment or observation of the same infection	16	21	—	—	15	1	12	3	43	25	68
3. Number of cases dealt with for the first time during the year under report (exclusive of cases under Item 4) suffering from :											
Syphilis, primary	6	1	—	—	—	—	—	—	6	1	7
„ secondary	14	12	—	—	—	—	—	—	14	12	26
„ latent in 1st year of infection	—	—	—	—	—	—	—	—	—	—	—
„ all later stages	48	24	—	—	—	—	—	—	48	24	72
„ congenital	13	19	—	—	—	—	—	—	13	19	32
Soft Chancre	—	—	2	—	—	—	—	—	2	—	2
Gonorrhoea, 1st year of infection	—	—	—	—	125	37	—	—	125	37	162
„ later	—	—	—	—	18	—	—	—	18	—	18
Conditions other than venereal ..	—	—	—	—	—	—	198	130	198	130	328
4. Number of cases dealt with for the first time during the year under report known to have received treatment at other Centres for the same infection	8	3	—	—	16	2	2	1	26	6	32
TOTALS OF ITEMS 1, 2, 3 AND 4	311	242	4	—	291	57	224	147	830	446	1276
5. Number of cases discharged after completion of treatment and final tests of cure (see Item 15) ..	45	21	2	—	91	33	215	143	353	197	550
6. Number of cases which ceased to attend before completion of treatment and were, on first attendance suffering from :—											
Syphilis, primary	1	—	—	—	—	—	—	—	1	—	1
„ secondary	6	5	—	—	—	—	—	—	6	5	11
„ latent in 1st year of infection	—	—	—	—	—	—	—	—	—	—	—
„ all later stages	13	16	—	—	—	—	—	—	13	16	29
„ congenital	8	11	—	—	—	—	—	—	8	11	19
Soft Chancre	—	—	—	—	—	—	—	—	—	—	—
Gonorrhoea, 1st year of infection	—	—	—	—	20	8	—	—	20	8	28
„ later	—	—	—	—	11	—	—	—	11	—	11
7. Number of cases which ceased to attend after completion of treatment but before final tests of cure (see Item 15)	15	10	1	—	25	1	—	—	41	11	52
8. Number of cases transferred to other centres or to institutions, or to care of private practitioners ..	23	5	1	—	34	4	—	—	58	9	67
9. Number of cases remaining under treatment or observation on 31st December	200	174	—	—	110	11	9	4	319	189	508
TOTALS OF ITEMS 5, 6, 7, 8 AND 9 ..	311	242	4	—	291	57	224	147	830	446	1276

16. Pathological Work :—	Microscopical		Serum Tests		
	for spiro- ochetes	for gonococci	Wasser- mann	Others for Syphilis	for Gonorrhoea
(a) Number of specimens examined at and by the medical officer of the treatment centre	18	217	—	—	—
(b) Number of specimens from patients attending at the centre sent for ex- amination to an approved laboratory	—	1162	1222	73	7

Statement showing the services rendered at the Treatment Centre during the year,
classified according to the areas in which the patients resided.

* Name of County or County Borough (or County in the case of persons residing elsewhere than in England and Wales) to be inserted in these headings.	Portsmouth	Hampshire	West Sussex	Isle of Wight	London	Southampton	Surrey	Liverpool	Maidstone	Total
A. Number of cases in Item 3 from each area found to be suffering from :—										
Syphilis	103	27	4	1	1	—	1	—	—	137
Soft Chancre	1	1	—	—	—	—	—	—	—	2
Gonorrhoea	144	29	3	2	—	1	—	—	1	180
Conditions other than venereal ..	269	49	9	—	—	1	—	—	—	328
TOTAL	517	106	16	3	1	2	1	—	1	647
B. Total number of attendances of all patients residing in each area ..	16036	2053	206	99	25	2	1	1	1	18424
C. Aggregate number of “ In-patient days” of all patients residing in each area	138	12	61	21	—	—	—	—	—	232
D. Number of doses of arsenobenzene com- pounds given in the out-patients Clinic and In-patient Department to patients residing in each area	1296	260	57	9	4	—	1	1	—	1628

MATERNITY AND CHILD WELFARE.—The usual routine work has been carried out by Dr. Foggie and the Health Visitors in connection with Maternity and Child Welfare, and there is nothing which this year calls for special note. The total attendances of the five centres were 31,008, a slight increase over the previous year, and the attendances at each centre were as follows :—

CENTRES	Attendances	New Patients	Seen by the Medical Officer
Fratton (2 afternoons a week)	11833	780	4372
Eastney (1 afternoon a week)	5261	317	1717
Portsea (1 afternoon a week)	4178	251	1646
Stamshaw (1 afternoon a week)	5906	342	1504
Cosham (1 morning a week)	3830	130	659
Totals ..	31008	1820	9898

Three-hundred and ninety-two expectant mothers were seen at the weekly ante-natal clinic at which the average attendances was 38.

The total number of visits paid by Health Visitors was 17,066 an increase of 3,131 over the previous year; 3,970 were first visits to infants under 1 year of age, and 1941 to children between the ages of 1 and 5 years. Visits were also paid to 20 cases of ophthalmia neonatorum, 4 cases of puerperal fever and 8 cases of puerperal pyrexia.

Food was issued from the Centres to 1,636 infants, the cost of the food issued was £3,141, and we received back £1,217 in part payment from parents.

The infantile mortality rate was only 55 deaths per 1,000 births compared with 59 last year, and with 65 for England and Wales.

MATERNITY HOMES AND HOSPITALS.—The following table gives particulars of the work at the Municipal Maternity Home, in Trafalgar Place, at the Maternity Ward of St. Mary's Hospital, and at the Royal Naval Maternity Home which receives a subsidy from the Council.

	Municipal Maternity Home	St. Mary's Hospital	Royal Naval Maternity Home
No. of Maternity beds (exclusive of isolation and labour) ..	16	10	15
No. of Patients admitted	281	201	308
Average duration of stay	14 days	14 days	14 days
No. of cases delivered by : (a) Midwives	274	—	258
(b) Doctors	7	201	30
Cases in which medical assistance was sought by midwife	77	(doctor always present)	74
No. of cases notified as :			
(a) Puerperal Fever	—	—	—
(b) „ Pyrexia	1	—	13
No. of cases of pemphigus neonatorum	14	—	—
No. of infants not entirely breast-fed while in institution	6	—	43
No. of cases notified as ophthalmia neonatorum	2	—	1
Result of treatment	cure	—	cure
No. of Maternal deaths	Nil	2	2
Cause of death ..	—	Pneumonia Eclampsia	Cerebral Haemorrhage Uraemia P.P.H.
No. of foetal deaths			
(1) Stillborn	6	13	9
(2) Within 10 days of birth	3	9	3
(3) Causes of death	Short Cord—1 Maceration—1 A.P. Haemorrhage 1 Strangulation—2 Prematurity—3 Convulsions—1	Prematurity—7 Inanition—2 Breech-extended anus and legs Placenta praevia—4 A. P. Haemorrhage 2 O.P. Presentation—1 Anecephalic foetus 1 Eclampsia—1	Prematurity—6 Deformity & Ascites 1 Maceration—1 Postmature, large-body—1 Prolonged labour—2 Occlusion of Aesophagus and inanition—1

MIDWIVES.—The number of Midwives practising in the City was 62 and they attended 3,205 confinements, of these they attended 2,838 cases as midwives, and as maternity nurses in 367 cases.

INSURANCE SCHEME UNDER MIDWIVES ACT.
—Under the above scheme the amount received in premiums was £452 5s. 0d., and the number of mothers who insured against doctors' fees was 1,809. The total amount paid to medical men was £1,303 16s. 6d., and there was received from patients (including the premiums) £552 11s. 9d., leaving as the net cost to the Local Authority for the attendance of doctors the sum of £751 4s. 9d. Amongst insured patients a doctor was sent for in 41.4 per cent. of the cases, but in only 17.2 per cent. when the patients were not insured.

MATERNAL MORTALITY.—During the year, out of 4,518 births and still-births there were recorded only 10 maternal deaths which gives the exceptionally low maternal death-rate of 2.3 deaths of mothers per 1,000 births. The maternal mortality-rate for England and Wales was 3.95. Of the 10 deaths recorded 2 were due to sepsis and 8 to other causes.

CHILDREN'S ACT, 1908.—Consequent upon the passing of the Local Government Act, 1929, the functions under Part I (Infant Life Protection) of the Children Act, 1908 were transferred to the Health Department on April 1st, 1930. There is one Infant Protection Visitor who visits periodically all premises registered under the Act. At the beginning of the year there were 113 registered premises with 126 children, at the end of the year the registered premises were 110 and the number of children 131. The premises in one instance were found to be unsuitable and a magistrate's order was obtained for the child's removal.

Chart showing the number of Deaths under 1 year of age
to 1,000 Births in Portsmouth, 1886 to 1931.

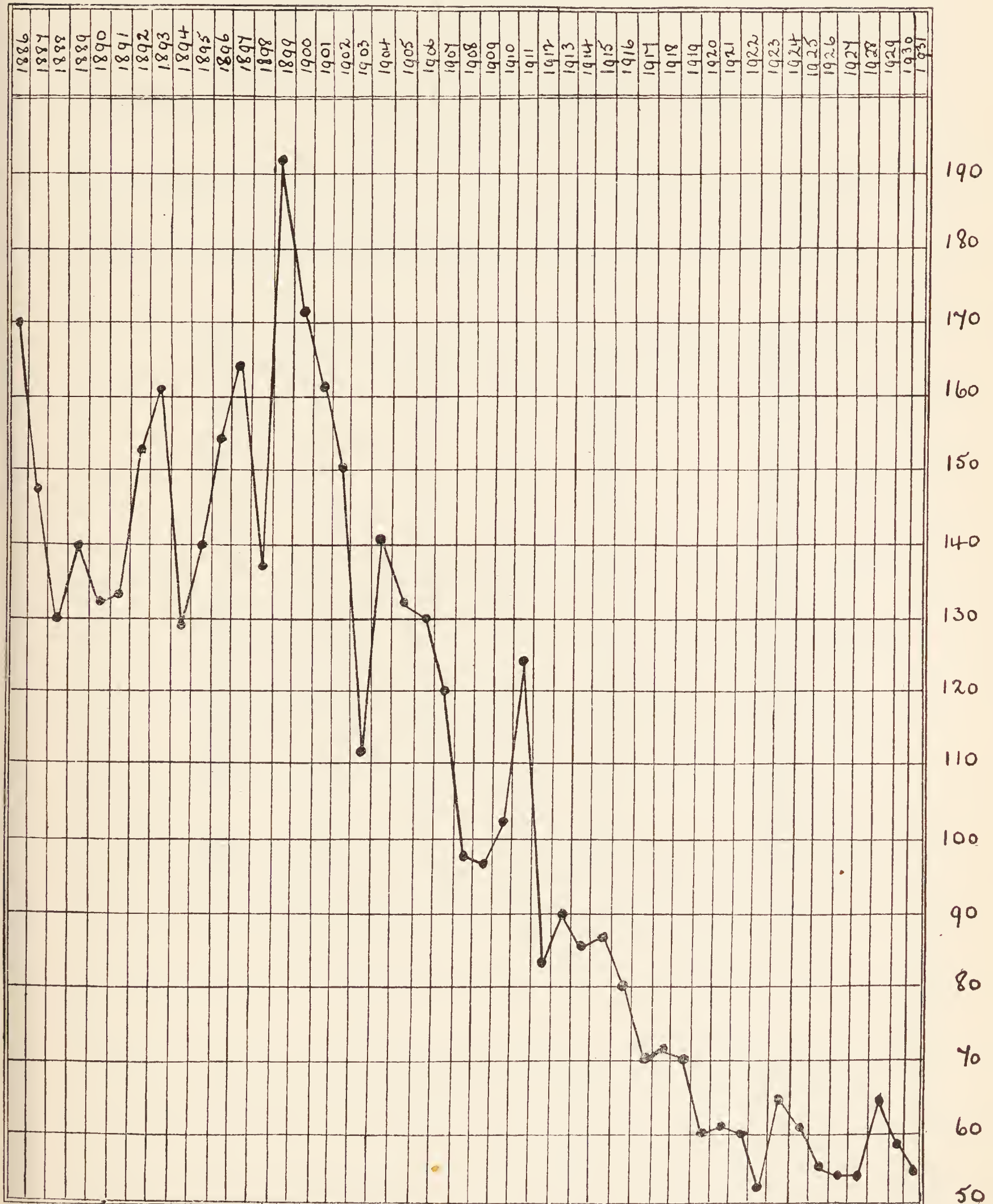


Table showing the Relationship of Temperature and Fatal Cases
of Summer Diarrhoea.

Week ending 1931				Temperature		Earth Thermometers		Rain in inches	Deaths from Diarrhoea
				Max.	Min.	1 ft.	4 ft.		
April	18th	..	..	54.4	41.2	49.3	48.0	0.32	1
"	25th	..	..	52.0	41.8	48.2	48.1	1.19	1
May	2nd	..	..	56.8	41.8	50.2	49.2	0.20	1
"	9th	..	..	60.1	44.8	53.4	50.3	0.50	1
"	16th	..	..	58.1	49.5	56.7	52.2	0.38	..
"	23rd	..	..	56.8	46.4	55.0	53.5	0.52	..
"	30th	..	..	65.0	52.2	59.6	54.6	1.92	..
June	6th	..	..	66.7	53.1	62.4	56.7	0.66	1
"	13th	..	..	64.1	55.2	62.5	58.0	0.62	..
"	20th	..	..	65.0	53.5	63.5	58.7	0.23	1
"	27th	..	..	69.2	53.5	64.0	59.7	0.10	..
July	4th	..	..	68.1	55.1	66.0	60.9	0.07	..
"	11th	..	..	66.8	55.1	65.0	61.5	0.18	..
"	18th	..	..	65.8	57.4	64.6	61.7	1.56	..
"	25th	..	..	67.2	55.2	63.9	61.0	0.28	..
August	1st	..	..	66.4	56.1	64.0	61.5	1.10	1
"	8th	..	..	72.0	60.1	66.5	62.0	0.64	..
"	15th	..	..	66.1	54.0	63.2	62.0	0.28	..
"	22nd	..	..	65.7	56.2	63.3	62.0	1.38	..
"	29th	..	..	64.4	50.7	59.8	60.8	0.44	..
Sept.	5th	..	..	63.0	56.1	61.2	60.2	1.34	1
"	12th	..	..	61.4	44.8	57.0	59.5	0.25	..
"	19th	..	..	62.4	51.4	57.8	58.3	0.31	1
"	26th	..	..	59.0	49.4	57.4	58.1	—	..
October	3rd	..	..	62.7	50.0	56.4	57.6	—	..
"	10th	..	..	63.2	52.7	57.2	57.5	0.53	1

ROLL OF MIDWIVES PRACTISING WITHIN THE CITY OF PORTSMOUTH.

SURNAME	CHRISTIAN NAME	ADDRESS	No. of Cert.	Date of Certificate	Date of Notice 1931
1. Ainsley	Clarissa Mary	23 Outram Road	51397	14th Aug., '20	9th January
2. Bampton	Dorothy Vera	31 Collins Road	68136	28th Feb., '26	23rd January
3. Barnes	Eliza	109 Church Road	23295	26th April, '06	14th January
4. Barnes	Elizabeth	109 Church Road	27020	14th Oct., '08	14th January
5. Blake	Ellen M.	12 Haslemere Road	27693	16th Dec., '08	9th January
6. Bragg	Sarah	118 St. Augustine Road	42180	5th May, '18	8th January
7. Brassfield	Frances Mary	26 Besant Road	47125	11th May, '18	10th January
8. Brinn	Rosina	42 Wadham Road	29590	10th Oct., '09	9th January
9. Brockett	Ellen	23 Outram Road	45581	17th May, '17	17th June
10. Challis	Patty Jane	37 Aylesbury Road	4208	28th April, '04	13th January
11. Clark	Gertrude	16 Second Avenue, Cosham	17540	25th Mar., '05	7th January
12. Cowell	Mary A.	57 St. Piran's Avenue	69902	16th Dec., '26	8th January
13. Crafts	Elizabeth	14 Alexandra Road	39421	17th Dec., '13	7th January
14. Dowse	Mabel Coles	15 Sheffield Road	28319	7th April, '09	7th January
15. Elliott	Mary Ann Leah	128 Prince Albert Road	5487	30th June, '04	6th January
16. Farndell	Marion	454 Commercial Road	8755	27th Oct., '04	15th January
17. Farr	Mary	6 Longs Road	52338	10th Nov., '20	7th January
18. Field	Ethel Fanny	126 Devonshire Avenue	54222	11th June, '21	9th January
19. Foley	Louisa	8 Thurbern Road	37918	28th April, '13	12th January
20. Foot	Alice Maud Mary	21 Essex Road	54229	11th June, '21	9th January
21. French	Louisa	2 Shirley Avenue	47980	19th Nov., '18	9th January
22. Godwin	Julia	3 Dean Road, Cosham	65151	29th Jan., '25	7th January
23. Goodman	Lucy Ann	3 Derby Road	26437	21st May, '08	6th January
24. Heard	Mabel Vesper	28 Victoria Road North	34559	28th Oct., '11	6th January
25. Hebington	Eliza	31 Curzon Howe Road	50981	12th May, '20	7th January
26. Hebington	Aileen Mary	63 Margate Road	70015	16th Dec., '26	7th January
27. Hodge	Ada	73 King Street, Southsea	50992	12th May, '20	7th January
28. Horton	Winifred	Naval Welfare Centre	66858	15th Aug., '25	7th January
29. Howard	Lydia	49 Wisborough Road	63413	14th June, '24	7th January
30. Jack	Emma	106 Jessie Road	47280	11th May, '18	9th January
31. Jago	Clara Sara	24 Elphinstone Road	23268	6th Feb., '06	12th January

ROLL OF MIDWIVES—continued.

SURNAME	CHRISTIAN NAME	ADDRESS	No. of Cert.	Date of Certificate	Date of Notice 1931
32. Jordan ..	Emma Jane ..	82 Vernon Road ..	58896	13th Dec., '22	1st January
33. Kean ..	Lucy Rowe ..	133 Eastfield Road ..	31908	30th Sept., '10	12th January
34. Langstreeth ..	Maria ..	80 Castle Road ..	14211	23rd Feb., '05	8th January
35. Lee ..	Ethel Eliza ..	23 Derby Road ..	60963	11th Aug., '23	10th January
36. Lovett ..	Ellen ..	14 Shearer Road ..	48431	10th Feb., '19	7th January
37. Malyon ..	Marion ..	200 Stamshaw Road ..	46160	11th Aug., '27	7th January
38. Martin ..	Elizabeth Amy ..	22 Milton Road ..	56977	16th April, '22	20th January
39. Martin ..	Emma Jane ..	4 Alhambra Road ..	32376	29th Oct., '10	27th January
40. Matthews ..	Elizabeth ..	1 Exeter Road ..	55447	31st Oct., '22	10th January
41. Moore ..	Emma Lillian K. ..	23 Oliver Road ..	48077	9th Nov., '18	8th January
42. Owen ..	Jane Ann ..	22 Besant Road ..	43020	1st Nov., '15	25th February
43. Paul ..	Margaret ..	12 Northern Parade ..	35805	2nd May, '12	9th January
44. Pavin ..	Winifred S. ..	Naval Maternity Home ..	78458	24th May, '30	16th January
45. Packer ..	Mabel Elizabeth ..	7 St. Andrew's Road ..	48091	9th Nov., '18	9th January
46. Phillips ..	Edith ..	80 Methuen Road ..	3388	24th May, '04	23rd January
47. Phillips ..	Abigail G. L. ..	14 Wykeham Avenue ..	34709	28th Oct., '11	7th January
48. Reynolds ..	E. E. ..	13 Cromwell Road ..	62715	9th April, '24	12th January
49. Richards ..	Annie Kathleen ..	Naval Maternity Home ..	35480	23rd Feb., '12	12th January
50. Rumbold ..	Edith ..	20 First Avenue, Cosham ..	49421	9th Aug., '19	7th January
51. Rust ..	Jane ..	204 Powerscourt Road ..	40133	28th April, '14	8th January
52. Sanson ..	Maud Mary ..	31 St. Mary's Road ..	40779	22nd June, '14	9th January
53. Spaven ..	Marion ..	Crambe Lodge, Priory Road ..	61571	8th Oct., '23	7th January
54. Stevens ..	Johanna ..	"Glenlyn," Stubbington Avenue ..	55569	10th Oct., '21	19th January
55. Street ..	Beryl ..	9 Clovelly Road ..	38035	8th April, '13	7th January
56. Taylor ..	Florence Mary ..	"Balmoral" Portchester ..	29219	10th Aug., '09	10th January
57. Taylor ..	Lily May ..	3 Posbrooke Road ..	18246	27th April, '05	17th January
58. Trowbridge ..	Edith Mary ..	1 Collins Road ..	22860	28th Nov., '05	8th January
59. Upfield ..	Gertrude Eleanor ..	25 Oliver Road ..	62132	12th Dec., '23	10th January
60. Walter ..	F. M. J.	73 Warren Avenue ..	70749	28th Feb., '27	5th January
61. Weller ..	Marion Edith ..	45 Catisfield Road ..	46669	10th Nov., '17	9th January
62. Willcocks ..	May Julia ..	174 Chichester Road ..	57158	10th April, '22	12th January

HOSPITAL	SITUATION	DESCRIPTION	Number of Beds	MANAGEMENT	AREA SERVED	MEDICAL STAFF	NURSING STAFF
Royal Portsmouth Hospital	Commercial Road	General	190	Voluntary Committee	Portsmouth and surrounding district	5 Resident Medical Officers 26 Honorary Medical and Surgical Staff	80
Portsmouth and Southern Counties Eye & Ear Hospital	Pembroke Road	Diseases of the Eye, Ear, Nose & Throat	47	Voluntary Committee	Portsmouth and surrounding district	No resident Medical Officer 14 Honorary Medical and Surgical Staff	12
St. Mary's Hospital	Milton Road	General	1168	Public Assistance Committee of the City Council	Portsmouth	1 Resident Medical Superintendent 3 Resident Assistant Medical Officers <i>Consultants when reqd.</i>	130 Nurses 69 Atttdts.
City Mental Hospital	Locksway Road, Milton	For Patients of Unsound Mind	1014	Committee of City Council	Portsmouth	1 Resident Medical Superintendent 3 Resident Assistant Medical Officers	89 male 121 female
Milton Hospital	Milton Road	City Infectious Diseases Hospital (excluding smallpox)	206	Health Committee of City Council	Portsmouth	1 Part-time non-resident Medical Officer	45
Municipal Maternity Hospital	Trafalgar Place Fratton Road	Lying-in Cases	16	Health Committee of City Council	Portsmouth	1 Part-time non-resident Medical Officer	11
Royal Naval Maternity Home	Clifton Road, Southsea	Lying-in Cases. (Limited to the wives of men in the Royal Navy and Royal Marines)	15	Voluntary Committee	Portsmouth and District	1 Non-resident Medical Officer 2 Hon. Consultant Medical Officers	11
Military Families Hospital	London Road, Hilsea	Lying-in Cases. (Limited to the wives of men in the Army and Royal Air Force)	9	Army Authorities	Portsmouth and District	1 Non-resident Medical Officer	8
Langstone Sanatorium and Beach Lodge	Locksway Road, Milton	Tuberculosis, early cases & Children	20 and 9 children	Health Committee of City Council	Portsmouth	1 Non-resident Medical Officer	4

HOSPITALS.—A list of the Hospitals in the City, together with the medical and nursing staffs is given in the preceding table. A full description of the Clinics and Treatment Centres provided by the City Council was given in my last Annual Report and there has been no material change since then.

PROFESSIONAL NURSING IN THE HOME.—Provision for home nursing is made by the Queen Victoria Nursing Association to which the Council makes a grant of £150. The Headquarters of the Association are at 5, St. Andrew's Road, Southsea. The staff consists of 15 trained nurses, and during the year they attended 2,018 patients in their own homes, paying altogether 50,084 visits: these include 3,149 visits paid to 278 patients at the request of the Health Department.

MATERNITY AND NURSING HOMES.—There are 68 maternity and nursing homes registered under the provisions of Part II. of the Midwives and Maternity Homes Registration Act, 1926, and the Nursing Homes Registration Act, 1927. The number of applications for registration received during the year was as follows:—

(1)	Number of applications for registration :				
	(a)	As Nursing Homes	..	..	2
	(b)	As Maternity Homes	..	..	5
(2)	Number of Homes registered :				
	(a)	As Nursing Homes	..	..	2
	(b)	As Maternity Homes	..	..	5
(3)	Number of Orders made refusing registration				Nil
(4)	Number of applications for exemption from registration	..	..	..	Nil

LOCAL GOVERNMENT ACT, 1929.—No definite action was taken during the year with respect to the transference of those medical services for which duplicate powers exist, from Poor Law service administration to administration under the special Acts set out in Section 5 (1) of the Local Government Act, 1929.

In the above connection, however, I was instructed at the beginning of the year to prepare a report embodying a survey of the medical services of the City together with recommendations as to how these could best be co-ordinated so that,

without duplication, the most suitable forms of medical and surgical treatment could be rendered readily available to the inhabitants of this City. In this report I pointed out that the most important units of a co-ordinated scheme of medical service were the hospitals, and that of these the two large general hospitals, namely, the Royal and St. Mary's, were the basis upon which any scheme must be constructed. I advised further that it was essential to any satisfactory co-ordination that St. Mary's Hospital should be entirely disassociated from Poor Law Relief and administered as a Municipal Hospital by virtue of the Public Health Acts.

The above report was adopted by the Health Committee but on submission to the Council, certain objections were raised to removing at this stage St. Mary's Hospital from the control of the Public Assistance Committee ; after a lengthy discussion it was resolved to appoint an *ad hoc* committee, consisting of representatives from each committee concerned, to consider the transfer of St. Mary's to the public health service of the Council. This committee has, however, not yet functioned and until it does I am afraid that no satisfactory unification of the Medical Services of this city into one harmonious whole can be effected. The reasons for this conclusion are set out at length in paragraph 7 of the report referred to.

AMBULANCE FACILITIES.—The ambulance service provided by the Council is as follows :—

For cases of infectious disease	..	..	2	ambulances
For general ambulance work	..	..	4	„
For street accidents and emergencies (police)	2			„

The general ambulance service is available at any time—day or night—on application either to the Health Department or to St. Mary's Hospital.

LABORATORY FACILITIES.—These were set out in my last report. The following table shows the various bacteriological examinations which were carried out in connection with infectious disease. Particulars of examinations made in connection with venereal disease are given on page 41.

DISEASE	Result		TOTAL
	Positive	Negative	
Diphtheria	648	2253	2901
Tuberculosis	169	644	813
Enteric Fever	10	27	37
Cerebro-spinal Meningitis (Spotted Fever) ..	—	1	1
Other Examinations ..	2	—	2

LOCAL AND ADOPTIVE ACTS.—In addition to the list of local and adoptive acts set out in my last report there must now be added The Portsmouth Corporation Act, 1931, which received the Royal Assent on 8th July, 1931. This Act contains many provisions for the better local government of the City in respect of health matters.

SANITARY CIRCUMSTANCES OF THE CITY.

WATER SUPPLY.—The water supplied by the Portsmouth Water Co. continues to be excellent both in quality and in quantity. The collecting area of the supply is the Downs to the north of Horndean and Rowland's Castle: from here the water passes down in the chalk under the London Clay and Reading Beds, and eventually comes to the surface, forming the extensive springs at Havant and Bedhampton. At Bedhampton the supply is chlorinated, and then pumped to the filter-beds and reservoir at the top of Portsdown Hill from whence it flows by gravitation to the City. Frequent examinations by the City Analyst show it to be exceptionally pure. During the past year the average daily amount supplied for domestic purposes was 26.5 gallons per head of the population; the total supply, including that used for trade purposes, was 37.5 gallons per head.

DRAINAGE AND SEWERAGE.—There is no change to record in connection with the arrangements for drainage, sewerage, and sewage disposal.

SCAVENGING.—The arrangements for the collection and disposal of house refuse have been transferred to the Transport Committee and steps are being taken for the provision of improved motor refuse collection vans. The refuse is advantageously disposed of by means of controlled tipping which is effected without causing any nuisance.

SANITARY INSPECTION.—The details of the sanitary inspection of the district will be found, as usual, in the Chief Sanitary Inspector's Report on page 70.

FOOD.—An account of the articles of food destroyed as unfit for food will be found in the Chief Sanitary Inspector's Report. Other particulars as to food will be found in the Meat Inspector's Report, (page 75). Information as to action taken under the Food and Drugs (Adulteration) Act, 1928, together with particulars as to the milk supply will be found in the Report of the City Analyst (pages 78—89).

PUBLIC ABATTOIR.—Nothing further has been done with regard to the provision of a public abattoir. As mentioned in my last Report a site for the abattoir has been decided upon at Wymering adjoining the Northern Road, but on the ground of the need for economy its erection has been postponed for the present.

MUNICIPAL DISINFECTING FLUID.—During the year 9,770 gallons of electrolysed sea-water disinfecting fluid were manufactured at the Municipal Disinfectant Station in Park Road. 2,770 gallons were issued to the public ; 3,060 to the public elementary schools ; 2,080 gallons to the Public Swimming Baths ; 600 gallons to the Langstone Hospital ; 940 gallons to the Municipal Maternity Hospital ; 130 gallons to St. Mary's Hospital ; 110 gallons to the City Mental Hospital and 80 gallons to the Eye and Ear Hospital.

FACTORIES AND WORKSHOPS.—The following tables give the number of inspections, the defects found, and action taken in connection with the supervision of factories, workshops and workplaces :—

Premises	Number of		
	Inspections	Written Notices	Occupiers Prosecuted
Factories (including Factory Laundries) ..	142	15	Nil
Workshops (including Workshop Laundries)	584	16	Nil
Workplaces (other than Outworkers' premises)	58	Nil	Nil
TOTAL ..	784	31	Nil

DEFECTS FOUND IN FACTORIES, WORKSHOPS AND WORKPLACES.

Particulars.	Number of Defects.			Number of offences in respect of which Prosecutions were instituted
	Found	Remedied	Referred to H.M. Inspector	
(1)	(2)	(3)	(4)	(5)
<i>Nuisances under the Public Health Acts :—</i>				
Want of Cleanliness	13	13	—	—
Want of Ventilation	—	—	—	—
Overcrowding	—	—	—	—
Want of Drainage of Floors	—	—	—	—
Other Nuisances	17	17	—	—
Sanitary accommodation { insufficient	2	1	—	—
{ unsuitable or defective	9	9	—	—
{ not separate for sexes	1	—	—	—
<i>Offences under the Factory and Workshops Acts</i>				
Illegal occupation of underground bake-house (s. 101)	—	—	—	—
Other Offences	5	4	—	—
(Excluding offences relating to out-work and offences under the Sections mentioned in the Schedule to the Ministry of Health (Factories and Workshops Transfer of Powers) Order, 1921				
TOTAL ..	47	44	—	—

HOMework.

Lists received twice a year from Employers	..	..	..	..	62
Number of Outworkers : Contractors	..	..	..	..	75
Workmen	..	..	..	..	360
Lists received once a year	..	..	..	..	3
Number of Outworkers : Contractors	..	..	..	..	2
Workmen	..	..	..	..	4
Outwork in unwholesome premises	..	..	..	..	—
Notices served	..	..	..	..	—
Outwork in infected premises	..	..	..	..	2

REGISTERED WORKSHOPS.

WORKSHOPS ON REGISTER AT END OF YEAR	Number
Retail Bakehouses	59
Tailoring	129
Dressmaking and Millinery	86
Upholstery	36
Laundries	14
Photography	20
Miscellaneous	342
TOTAL ..	686

HOUSING.—During the year there were built in the City 805 new houses, but no houses were built by the Council for the working classes. It will be remembered that in 1930 the Council adopted a five-year housing programme which provided for the erection of 2,300 houses, and at the beginning of this year I submitted proposals for the first instalment of the programme, namely, 862 houses, to be completed by the end of 1932. These were approved by the Council in March and the City Engineer prepared a layout for 410 houses at Wymering, 30 at York Place and 12 in Britain Street, Portsea. Before tenders could be accepted the national financial crisis occurred and the number of houses at Wymering was cut down from 410 to 150.

With a view to improving the conditions in working class houses, it was decided to carry out a house-to-house inspection in certain areas. The first area selected was what is known as the "Metal Streets," namely ; Steel Street, Diamond Street, Silver Street, Gold Street, Stone Street, Flint Street and Copper Street, and the inspection of this area was completed by the end of the year. The total number of houses inspected was 198 and in 140 of these sanitary defects were found of which the principal were :—

Defective roofs	80
Defective paving of yard	31
Severe dampness	45
Defective W.C.'s and sanitary fittings	52
Defective floors and stairs	64
Defective walls and ceilings	75
Choked and defective drains	18
Dirty houses	7
Defective sash lines and frames	97
Defective door frames and sills	38
Defective coppers and firegrates	52

We were met with a marked willingness on the part of the owners to remedy the insanitary conditions to which their attention was called. In most instances the required work was put in hand on receipt of a preliminary notice, and in very few cases was it necessary to serve statutory notices.

The following particulars, tabulated in accordance with the requirements of the Ministry of Health, are given of the activities of the Health Department in connection with housing.

1.—INSPECTION OF DWELLING-HOUSES DURING THE YEAR.

(1) (a) Total number of dwelling houses inspected for housing defects (under Public Health or Housing Acts) ..	6578
(b) Number of inspections made for the purpose ..	23403
(2) (a) Number of dwelling-houses (included under sub-head (1) above) which were inspected and recorded under the Housing Consolidated Regulations, 1925 ..	92
(b) Number of inspections made for the purpose ..	276
(3) Number of dwelling-houses found to be in a state so dangerous or injurious to health as to be unfit for human habitation	6
(4) Number of dwelling-houses (exclusive of those referred to under the preceding sub-head) found not to be in all respects reasonably fit for human habitation	86

2.—REMEDY OF DEFECTS DURING THE YEAR WITHOUT SERVICE OF FORMAL NOTICES.

Number of defective dwelling-houses rendered fit in consequence of informal action by the Local Authority or their officers ..	1358
--	------

3.—ACTION UNDER STATUTORY POWERS DURING THE YEAR.

A.—Proceedings under sections 17, 18 and 23 of the Housing Act, 1930 :

(1) Number of dwelling-houses in respect of which notices were served requiring repairs	83
(2) Number of dwelling-houses which were rendered fit after service of formal notices :	
(a) By owners	47
(b) By local authority in default of owners	14

B.—Proceedings under Public Health Acts :

(1) Number of dwelling-houses in respect of which notices were served requiring defects to be remedied	1512
(2) Number of dwelling-houses in which defects were remedied after service of formal notices :	
(a) By owners	306
(b) By local authority in default of owners	Nil

C.—Proceedings under sections 19 and 21 of the Housing Act, 1930 :

(1) Number of dwelling-houses in respect of which Demolition Orders were made	1
(2) Numbers of dwelling-houses demolished in pursuance of Demolition Orders	1

D.—Proceedings under section 20 of the Housing Act, 1930 :

(1) Number of separate tenements or underground rooms in respect of which Closing Orders were made	Nil
(2) Number of separate tenements or underground rooms in respect of which Closing Orders were determined, the tenement or room having been rendered fit	Nil

E.—Proceedings under section 3 of the Housing Act, 1925 :

(1) Number of dwelling-houses in respect of which notices were served requiring repairs	Nil
(2) Number of dwelling-houses which were rendered fit after service of formal notices :	
(a) By owners	Nil
(b) By local authority in default of owners	Nil
(3) Number of dwelling-houses in respect of which Closing Orders became operative in pursuance of declarations by owners of intention to close	2

F.—Proceedings under Sections 11, 14, and 15 of the Housing Act, 1925 :

(1) Number of dwelling-houses in respect of which Closing Orders were made	Nil
(2) Number of dwelling-houses in respect of which Closing Orders were determined, the dwelling-houses having been rendered fit	5
(3) Number of dwelling-houses in respect of which Demolition Orders were made	29
(4) Number of dwelling-houses demolished in pursuance of Demolition Orders	161

MONTHLY WEATHER SUMMARY FOR THE YEAR 1931.

Month	Mean Barometer ins.	Mean Temp. °F.	ABSOLUTE		MEAN		Mean Daily Range °F.	SUNSHINE		RAINFALL			Relative Humidity (Saturation 100)
			Max. °F.	Min. °F.	Max. °F.	Min. °F.		Total No. of hours	Days of 0.5 hrs. or more	Total m.m.	Total ins.	Days of 0.01 ins. or more	
January ..	29.952	40.1	51	25	44.4	35.9	8.5	72.7	17	54.8	2.15	16	89
February ..	29.908	41.2	51	30	46.0	36.5	9.5	77.8	19	40.3	1.59	18	90
March ..	29.952	41.6	60	21	47.6	35.7	11.9	133.6	25	28.7	1.13	6	84
April ..	29.900	47.7	61	36	53.4	42.0	11.4	119.1	23	77.1	3.03	17	83
May ..	29.899	53.9	75	38	60.0	47.8	13.2	192.7	26	84.5	3.32	15	84
June ..	30.058	60.5	75	46	66.8	54.3	12.5	204.6	25	38.9	1.53	12	80
July ..	29.872	61.0	72	49	66.3	55.8	10.5	163.3	27	79.6	3.13	17	84
August ..	29.934	61.4	77	44	67.4	55.5	11.9	158.6	28	131.6	5.18	17	80
September ..	30.197	56.9	69	42	61.0	52.8	8.2	140.9	22	47.3	1.86	13	83
October ..	30.185	51.6	68	29	57.8	45.5	12.3	126.9	24	14.6	0.57	6	83
November ..	29.829	48.8	61	36	53.5	44.4	9.1	71.7	19	93.0	3.66	17	90
December ..	30.345	43.9	58	27	48.2	39.8	8.3	41.4	14	15.4	0.61	9	91
TOTAL ..	..	..	..	..	..	..	..	1503.3	269	705.8	27.76	163	..
MEAN ..	30.002	51.6	64.8	35.4	56.0	45.5	9.1	125.2	22.4	58.8	2.31	13.5	84.2

TABLE SHOWING SUNSHINE, RAINFALL AND EXTREMES OF TEMPERATURE SINCE 1890.

Year	Total Sunshine	Total Rainfall in ins.	Highest Maxi- mum in Shade °F	Date	Lowest Maxi- mum in Shade °F	Date	Lowest Mini- mum in Shade °F	Date	Lowest Mini- mum on Grass °F	Date
1890	1350	21.71	77	May 24th	30	Dec. 16th	18	Dec. 31st	10	Jan. 7th
1891	1247	31.43	78	May 16th, Sept. 12th	31	Jan. 6th	19	Jan. 18th	8	Jan. 10th, 11th
1892	1371	22.27	77	July 27th	29	Jan. 9th	19	Jan. 10th	13	Dec. 27th
1893	1412	23.14	85	June 18th	29	Jan. 2nd	20	Jan. 2nd	12	Jan. 5th
1894	1600	35.89	82	July 1st	25	Jan. 4th	14	Jan. 5th, 6th	13	Jan. 5th, 6th
1895	1811	27.26	79	Sept. 28th	25	Feb. 6th	17	Feb. 6th, 7th	5	Feb. 13th
1896	1566	25.79	81	July 21st	32	Feb. 25th	24	Feb. 26th	19	Feb. 26th
1897	1569	28.48	86	July 16th	32	Feb. 23th	24	Feb. 24th	16	Dec. 4th
1898	1454	22.67	81	Aug. 16th	37	Feb. 21st	27	Feb. 21st	19	Feb. 21st
1899	1929	25.26	84	Aug. 3rd	30	Dec. 14th	22	Dec. 14th	16	Mar. 25th
1900	1608	25.96	85	July 25th	35	Feb. 3rd	22	Feb. 10th	16	Feb. 8th, 10th
1901	1843	23.41	84	July 19th	30	Jan. 7th	20	Jan. 9th	14	Jan. 9th
1902	1501	25.27	82	July 19th	32	Dec. 6th	23	Dec. 7th	15	Feb. 12th, 13th, 16th
1903	1702	34.88	80	June 1st, July 9th	32	Jan. 12th	23	Jan. 15th	12	Dec. 3rd
1904	1732	26.64	79	July 17th	30	Jan. 2nd	25	Jan. 1st	13	Jan. 21st
1905	1685	24.05	80	July 21st, 26th	35	Jan. 1st, Nov. 17th	24	Nov. 24th	15	Jan. 9th, Nov. 21st
1906	1705	28.74	79	Sept. 1st	34	Dec. 26th	25	Jan. 24th	13	Feb. 14th
1907	1594	25.33	79	July 16th	29	Jan. 23rd, 24th	20	Jan. 24th	14	Jan. 25th
1908	1951	20.53	83	July 2nd	35	Jan. 11th	17	Dec. 30th	11	Jan. 6th
1909	1902	32.28	85	Aug. 12th	34	Mar. 3rd	20	March 3rd	10	Jan. 27th
1910	1691	31.66	76	May 23rd	35	Jan. 26th	21	Jan. 27th	13	Jan. 16th
1911	2108	30.06	90	Aug. 14th	35	Jan. 15th	25	Jan. 16th	17	Feb. 3rd
1912	1561	31.94	89	July 15th	32	Feb. 2nd	20	Feb. 3rd	12	Dec. 25th
1913	1584	29.96	81	June 29th	36	Dec. 29th, 30th	29	Jan. 13th, Apl. 13th	19	Jan. 24th
1914	1914	33.13	79	Aug. 13th, 14th	33	Jan. 19th	25	Dec. 29th, 31st	14	Nov. 27th
1915	1776	37.41	79	July 2nd	36	Jan. 28th	27	Jan. 23rd	18	Dec. 17th
1916	1628	28.48	82	Aug. 2nd	34	Feb. 25th	25	Feb. 26th	17	Feb. 3rd
1917	1718	25.93	78	July 16th, 17th	31	Jan. 26th, 27th	20	Feb. 5th	13	Feb. 18th
1918	1874	25.80	83	Aug. 22nd	36	Jan. 3rd, 4th	23	Feb. 9th	16	Dec. 17th
1919	1784	29.06	82	Aug. 10th, 13th	31	Jan. 31st	24	Jan. 25th, Feb. 8th, 9th	17	Dec. 16th
1920	1584	28.00	78	May 24th	31	Dec. 12th	22	Jan. 7th	22	Dec. 16th
1921	2065	14.00	89	July 19th	38	Feb. 7th	26	Jan. 15th	18	Nov. 13th
1922	1809	30.24	79	May 23rd, 24th	37	Feb. 6th	26	Nov. 15th	19	Nov. 13th
1923	1770	29.54	89	July 12th	34	Feb. 25th	23	Jan. 24th, 25th	17	Jan. 18th
1924	1760	36.59	77	July 12th	37	Feb. 20th, 27th	27	Nov. 26th	21	Nov. 16th
1925	1923	38.10	82	June 7th	35	Dec. 14th	26	Feb. 18th, 29th	17	Feb. 15th
1926	1688	26.40	85	July 14th	32	Dec. 14th	22	March 19th	17	Nov. 14th
1927	1653	34.00	80	July 10th	29	Jan. 14th	22	Jan. 15th, 17th	18	Jan. 15th, 17th, Dec. 28th
1928	1923	32.51	88	July 15th	37	Dec. 19th	24	Dec. 19th	15	Jan. 20th
1929	1986	28.00	87	Sept. 5th	26	Dec. 14th	16	Mar. 12th, 14th, Dec. 15th	17	Dec. 9th, 15th
1930	1730	30.65	83	August 28th	38	Feb. 13th	24	Feb. 15th	7	Feb. 15th
1931	1503	27.76	77	August 3rd, 5th	33	Dec. 5th	21	March 20th	16	Nov. 17th
				Jan. 8th, March 9th				March 10th		March 9th

SUMMARY OF METEOROLOGICAL STATISTICS, 1931.

Barometer.—The mean barometer pressure for the year was 30.002 inches. The highest observed reading corrected to sea-level was 30.796 on December 23rd and the lowest 28.990 on November 10th.

Temperature.—The mean temperature in the shade was 51.6° or 0.8° above the normal.

MAXIMUM.—The mean maximum temperature in the shade was 56.0° , the highest being 77.0° on August 3rd and 5th.

MINIMUM.—The mean minimum temperature was 47.1° , the lowest being 21° on March 10th.

MINIMUM ON GRASS.—The mean minimum temperature on the grass was 39.3° , the lowest being 16° on March 9th.

EARTH TEMPERATURE.—The mean temperature at 1 foot below the ground was 52.0° , and that 4 feet 52.6° .

Bright Sunshine.—1503.3 hours of sunshine were registered by the Campbell-Stokes Recorder. The greatest amount registered on one day was 15 hours, viz., on June 26th.

Frosts.—The minimum thermometer in the shade, four feet above the ground fell to and below freezing point on 31 days, and that on the ground on 88 occasions.

Humidity.—The mean humidity of the air (Saturation 100) was 85.

Rainfall.—The total rainfall was 27.76 inches or 2.00 inches below the normal. The greatest fall of rain in 24 hours was 1.50 inches, on May 27th.

Hail.—Hail occurred on 4 occasions.

Thunder.—Thunder occurred on 7 occasions.

Snow.—Snow or Sleet fell on 10 occasions.

Fogs.—Fogs occurred on 14 occasions.

Gales.—Gales occurred on 8 occasions.

Averages for the Past Ten years, 1922 to 1931.

	<i>Hours of Bright Sunshine</i>	<i>Mean Temperature</i>	<i>Humidity (Saturation 100)</i>
<i>Rainfall</i>			
31.38	1756.9	51.3	81.5

APPENDIX.—TABLE 1. Vital Statistics of Whole District during 1931 and previous years.

YEAR	Population estimated to Middle of each Year.	BIRTHS			TOTAL DEATHS REGISTERED IN THE DISTRICT.		TRANSFERABLE DEATHS		NETT DEATHS BELONGING TO THE DISTRICT			
		Un- corrected Number	Nett.		Number	Rate	of Non- residents regis- tered in the District	of Resi- dents not regis- tered in the District	Under 1 Year age		At all Ages	
			Number	Rate					Number	Rate per 1,000 Nett Births		
												Number	Rate
1910	227,821	5801	..	25.41	2995	13.14	..	..	603	104	..	..
1911	232,221	5787	5775	24.99	3101	13.40	106	72	734	127	3067	13.20
1912	236,732	5605	5570	23.60	3141	13.31	97	81	466	85	3125	13.24
1913	241,256	5989	5966	24.34	3096	12.63	98	82	545	91	3080	12.57
1914	245,827	5714	5678	23.17	3176	12.96	125	98	486	85	3149	12.81
1915	202,441	4975	4949	24.44	3405	16.81	176	55	433	87	3284	16.24
1916	197,848	5186	5184	24.09	2987	15.09	112	62	418	80	2937	14.84
1917	198,527	4613	4584	20.71	3081	15.51	197	58	326	71	2902	14.81
1918	203,396	4778	4774	20.90	3730	18.33	190	107	361	75	3647	17.93
1919	224,846	5300	5139	21.94	3006	13.37	118	93	383	74	2981	13.26
1920	233,805	6520	6520	25.85	2705	11.10	120	55	393	60	2640	11.29
1921	233,929	5662	5651	22.90	2704	11.55	142	50	355	63	2612	11.20
1922	236,630	5465	5529	22.10	2920	12.34	108	62	349	63	2874	12.14
1923	230,718	5338	5314	21.06	2540	11.00	81	65	276	52	2524	10.93
1924	232,000	5096	5022	20.10	3003	12.94	94	68	348	66	2977	12.58
1925	232,900	4888	4770	19.07	2912	12.50	110	64	297	61	2866	12.30
1926	231,500	4636	4496	18.20	2746	11.86	108	65	257	54	2703	11.67
1927	232,100	4352	4230	17.08	3006	12.95	121	60	234	55	2845	12.68
1928	240,700	4579	4445	17.21	2864	11.89	134	57	245	55	2730	11.34
1929	242,000	4519	4394	16.80	3429	14.16	153	69	293	66	3345	13.82
1930	242,000	4409	4261	16.30	2927	12.09	142	71	250	59	2856	11.80
1931	228,900	4454	4336	17.49	3035	13.25	153	68	239	55	2950	12.87

APPENDIX. TABLE II.—Cases of Infectious Diseases notified during the Year 1931.

Notifiable Disease	Cases notified in whole District												Total Cases notified in each Locality.						Total Cases Removed to Hospital
	At all Ages	At Ages—Years											1 Ports-mouth	2 Portsea	3 Landport North	4 Landport Central	5 Mid-Southsea	6 Southsea	
		Under 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 10	10 to 15	15 to 20	20 to 35	35 to 45	45 to 65								65 and over
Small-pox .. ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diphtheria (including Membranous Group) ..	345	8	18	23	25	20	139	59	12	31	6	4	..	124	131	54	26	340	..
Erysipelas	72	3	2	1	..	1	5	1	1	8	12	33	5	20	26	12	5	26	..
Scarlet Fever	601	3	16	33	41	47	262	96	26	55	16	6	..	281	137	112	28	537	..
Enteric Fever	11	..	..	..	..	..	..	2	1	3	1	2	2	3	4	2	2	5	..
Influenzal Pneumonia ..	33	1	1	2	..	..	6	..	4	2	6	10	1	9	10	8	4	6	..
Puerperal Fever	8	..	..	..	..	..	..	..	..	8	..	..	..	2	2	3	1	6	..
Puerperal Pyrexia	22	..	..	..	..	..	..	..	..	20	2	..	..	3	3	3	13	2	..
Poliomyelitis	1	..	..	..	..	..	1	..	..	..	..	..	..	1	..	..	..	1	..
Encephalitis Lethargica ..	6	..	1	..	..	..	..	1	..	..	1	2	1	2	2	1	..	2	..
Malaria	1	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..
Ophthalmia Neonatorum ..	20	20	..	..	..	..	..	..	..	..	..	..	..	8	2	6	1	..	..
Cerebro-spinal Meningitis ..	11	..	..	1	1	1	3	..	..	4	1	..	..	..	7	3	1	11	..
Pulmonary Tuberculosis ..	427	..	..	1	..	1	22	26	35	177	84	73	8	138	110	107	30	238	..
Other forms of Tuberculosis	48	1	1	2	4	4	10	9	6	5	3	3	..	14	14	11	1	15	..
TOTALS ..	1606	36	39	63	71	74	448	194	85	313	133	133	17	605	448	322	112	1189	..

Isolation Hospitals or Sanatoria—1. Milton Hospital for Infectious Diseases.

2. Small-pox Hospital at Elson (by arrangement with Gosport and Alverstoke U.D.C.)

3. The Langstone Consumption Hospital

APPENDIX.—TABLE III. Infant Mortality.

Nett Deaths from stated causes at various Ages under 1 Year of Age.

CAUSE OF DEATH.	Under 1 week	1-2 weeks	2-3 weeks	3-4 weeks	Total under 4 weeks	4 weeks and under 3 m'ths	3 months and under 6 m'ths	6 months and under 9 m'ths	9 months and under 12 m'ths	Total Deaths under One Year
Small-pox .. ..	..	..	..	..	..	..	..	..	..	..
Measles .. ..	..	..	..	..	..	..	..	..	..	..
Scarlet Fever .. ..	..	..	..	..	..	..	1	..	..	1
Whooping Cough .. ..	..	..	..	..	..	..	4	1	4	9
Diphtheria .. ..	..	..	..	..	..	..	1	..	..	1
Influenza .. ..	..	..	..	..	..	..	..	..	..	..
Erysipelas .. ..	..	..	..	..	..	..	..	..	..	..
Cerebro-spinal Fever .. ..	..	..	..	..	..	1	..	..	..	1
Tuberculous Meningitis .. ..	..	..	..	..	..	..	1	1	1	3
Abdominal Tuberculosis .. ..	..	..	..	..	..	..	..	1	1	2
Other Tuberculosis .. ..	..	..	..	..	..	..	..	..	1	1
Syphilis .. ..	..	..	1	..	1	..	1	..	..	2
Chicken-pox .. ..	..	..	..	..	..	..	..	..	..	..
Rickets .. ..	..	..	..	..	..	..	..	..	..	..
Meningitis (not tuberculous) .. ..	..	..	..	..	..	..	..	2	..	2
Convulsions .. ..	..	..	..	..	..	..	..	..	..	..
Bronchitis	1	..	1	..	2	3	5	3	3	16
Pneumonia (all forms) .. ..	..	2	1	..	3	5	10	12	14	44
Gastritis .. ..	..	..	..	..	..	1	1	..	..	2
Diarrhoea .. ..	..	..	..	..	..	2	1	..	..	3
Enteritis .. ..	..	1	..	2	3	5	1	7	1	17
Congenital Malformations	6	1	2	2	11	3	1	1	..	16
Atrophy, Debility & Marasmus	5	3	3	1	12	5	3	..	..	20
Premature Birth	48	11	2	..	61	4	..	..	..	65
Injury at Birth	5	1	..	..	6	..	..	..	..	6
Atelectasis	12	..	..	..	12	..	..	..	..	12
Icterus Neonatorum	1	2	..	1	4	..	..	..	..	4
Pemphigus Neonatorum .. ..	..	..	1	..	1	..	..	..	..	1
Suffocation, Overlying .. ..	..	..	..	..	..	..	..	1	..	1
Other Causes	3	..	1	1	5	1	2	2	..	10
TOTALS	81	21	12	7	121	30	32	31	25	239

Nett Births in the year—Legitimate 4061
Illegitimate 275

Port Sanitary Authority.

To the Chairman and Members of the Port Sanitary Authority.

GENTLEMEN,

I have to report that there were no cases of infectious disease notified amongst the vessels arriving at the Port during the year.

The total arrivals of vessels was 6,896, of these 492 were inspected by the Port Sanitary Inspector. Insanitary conditions were found in 39 vessels and all were remedied before the vessels left the Port.

Of vessels arriving 485 were from coastwise ports, 244 from foreign ports, and 6,167 from the Solent.

The nationality of vessels was as follows :—

British	..	6737	Swedish	..	15
French	..	61	Norwegian	..	7
Dutch	..	48	Belgian	..	4
German	..	20	Finnish	..	5
			Latavian	..	1

I have the honour to be, Gentlemen,

Your obedient Servant,

A. MEARNS FRASER, M.D.

Medical Officer of Health.

Milton Hospital.

REPORT FOR THE YEAR 1931.

The following particulars are given of patients admitted to the above Hospital during the year ended December 31st, 1931.

The number of admissions was 1008, as against 1,311 the previous year. The number of deaths was 42, discharged 1,033, remaining 125. The combined mortality in respect of all diseases was 4.1 per cent.

SCARLET FEVER.—Admitted 530, last year 609; discharged 532; died 7; remaining 63. The fatality rate was 1.3 per cent.

DIPHTHERIA.—Admitted 340, last year 570; discharged 389; died 11; remaining 38. The fatality rate was 3.2 per cent.

TYPHOID AND PARA-TYPHOID FEVERS.—Admitted 5; discharged 4; died 1. The fatality rate was 20 per cent.

TUBERCULOSIS.—Admitted 110; discharged 102; died 15; remaining 23. The fatality rate was 13.6 per cent.

MEASLES AND GERMAN MEASLES.—Admitted 7; discharged 6; remaining 1.

CEREBRO-SPINAL FEVER.—Admitted 11; discharged 5; died 6. The fatality rate was 54.5 per cent.

ERYSIPELAS.—Admitted 2; discharged 4. (Two cases were in hospital 1st January).

PYREXIA.—Admitted 1; died 1.

ENCEPHALITIS LETHARGICA.—Admitted 1; died 1.

WHOOPING COUGH.—Admitted 1; discharged 1.

STAFF ILLNESS.—There were three cases of illness among the Staff. Two Nurses contracted Scarlet Fever and one Diphtheria. All recovered.

MILTON HOSPITAL.

NUMBER OF PATIENTS ADMITTED
during the Year 1931.

DISEASES.	AGES								TOTAL
	0 to 1	1 to 5	5 to 15	15 to 25	25 to 35	35 to 45	45 to 55	55 and over	
Scarlet Fever	3	123	313	42	32	12	3	2	530
Typhoid and Para- Typhoid Fever .. ..	..	..	..	2	1	1	1	..	5
Diphtheria	8	86	193	26	17	6	4	..	340
Cerebro-spinal Fever ..	..	3	3	2	2	1	..	..	11
Measles and German Measles	1	2	..	3	1	..	..	..	7
Tuberculosis .. ..	..	..	2	27	33	34	11	3	110
Erysipelas .. ..	..	..	1	..	..	..	1	..	2
Puerperal Pyrexia ..	..	..	..	1	..	..	..	..	1
Encephalitis Lethargica ..	..	..	..	..	..	..	..	1	1
Whooping Cough .. ..	..	1	..	..	..	..	..	..	1
TOTALS ..	12	215	512	103	86	54	20	6	1008

NUMBER OF PATIENTS ADMITTED TO THE MILTON HOSPITAL

(Small-pox Patients—Langstone Hospital) for the years 1883 to 1931.

Year	Small-pox	Scarlet Fever	Enteric or Typhoid	Diphtheria	Measles	Other Diseases	Totals
1883	5	1	..	..	1	..	7
1884	1	13	2	4	2	..	22
1885	8	16	6	6	1	..	37
1886	7	29	66	11	11	1	125
1887	20	56	37	27	4	3	147
1888	4	120	35	23	8	8	198
1889	6	278	48	18	5	8	363
1890	1	384	114	69	1	7	576
1891	..	180	51	52	22	18	323
1892	..	532	81	27	..	5	645
1893	6	503	94	12	6	5	626
1894	22	238	53	38	22	9	382
1895	..	177	83	46	15	25	346
1896	6	354	76	38	10	17	501
1897	..	413	102	37	6	11	569
1898	..	436	92	118	6	10	662
1899	1	333	96	225	..	2	657
1900	..	198	157	211	1	..	567
1901	1	270	101	170	..	..	542
1902	8	339	105	197	..	..	649
1903	3	572	70	211	..	2	858
1904	..	340	73	220	..	3	636
1905	10	274	57	198	..	..	539
1906	1	243	72	239	..	..	555
1907	..	202	109	235	..	..	546
1908	..	343	102	284	1	1	731
1909	..	631	96	354	1	..	1082
1910	..	850	114	336	..	..	1300
1911	..	635	70	436	..	..	1141
1912	..	702	71	782	..	..	1555
1913	..	730	55	652	..	..	1437
1914	..	469	110	615	..	..	1194
1915	..	630	33	684	..	27	1374
1916	..	340	47	589	..	35	1011
1917	..	383	21	340	4	48	796
1918	..	277	15	483	25	27	827
1919	..	250	10	520	10	156	946
1920	..	382	12	598	16	105	1113
1921	..	1010	26	482	8	71	1597
1922	..	996	14	555	6	41	1612
1923	..	595	24	669	6	98	1392
1924	..	518	29	477	5	108	1137
1925	..	834	23	754	8	89	1708
1926	..	489	12	924	10	73	1508
1927	..	539	16	723	4	99	1381
1928	..	684	13	848	3	102	1650
1929	..	702	6	727	1	70	1506
1930	..	609	32	570	6	94	1311
1931	..	530	5	340	7	126	1008

Report of the Chief Sanitary Inspector.

*To the Chairman and Members of the Health
and Housing Committee.*

GENTLEMEN,

I beg to present the Annual Report as Chief Sanitary Inspector of the work carried out by the Department during the year.

1,512 Informal and 322 Statutory Notices were served for the abatement of nuisances under the Public Health Act.

93 Notices were also served under Section 17 of the Housing Act, 1930, to render houses in all respects fit for habitation.

15 Inspections were made of the sanitary arrangements of places of public entertainment.

The following summary shows the particulars of the work carried out under the supervision of your officers :—

DRAINAGE DEFECTS.

Drains cleared	502
Drains cleared in Workshops	2
Drains repaired or relaid	200
Drains ventilated or ventilating shafts repaired	28
New water-closet pans provided	49
New Pedestal closet pans provided	4
Water-closet fittings repaired	228
Flushing apparatus to water-closets provided	35
" " " " " " in Workshops	2
Separate and additional sanitary accommodation provided	4
Water-closets disconnected from Workshops	5
" Screened from Workshops	5
" Ventilated	7
" Cleansed	1
Gratings provided to gully traps	33
Glazed stoneware sinks provided	20
Sink waste-pipes repaired, trapped or renewed	126

OTHER DEFECTS.

Rain-water spouting cleansed or repaired	..	..	..	..	355
Roofs repaired	..	..	..	..	612
Weather slating repaired or externals walls protected	..	..	..	..	456
Floors, stairs or doors repaired	..	..	..	..	651
Sashes, lines, sills, glazing or sash frames repaired	..	..	..	..	1285
Damp courses provided or repaired	..	..	..	..	15
Houses or parts of houses cleansed or distempered	..	..	..	..	283
" " " repaired	..	..	..	..	772
Sanitary dustbins provided	..	..	..	..	4
Dust chutes cleansed or repaired	..	..	..	..	7
Space beneath floors ventilated	..	..	..	..	36
Yards, stables, sties, etc., repaved	..	..	..	..	195
Overcrowding in dwelling-houses abated	..	..	..	..	11
Foundation of house concreted	..	..	..	..	2
Water supply laid on or water services repaired	..	..	..	..	44
Workshops cleaned or distempered	..	..	..	..	6
Workshop floors repaired	..	..	..	..	1
Workshop roofs repaired	..	..	..	..	—
Workshops or parts of Workshops repaired	..	..	..	..	13
Cooking ranges or firegrates repaired or renewed	..	..	..	..	153
Coppers repaired or renewed	..	..	..	..	82
Other nuisances in dwelling-houses abated	..	..	..	..	56

OFFENSIVE MATTER, &c.

Manure and refuse removed	..	..	..	..	..	32
Stagnant water removed	..	..	..	..	..	3
Animals removed	..	..	..	..	..	18
Bedding cleansed or destroyed	..	..	..	..	..	10

SLAUGHTERHOUSES, STABLES, &c.

Yards, stables, sties, etc., cleansed	..	..	..	..	..	7
Bakehouses cleansed	..	..	..	..	..	8

BYELAWS.

Notices under Nuisance Bye-laws complied with	6
---	----	----	----	----	---

The following articles of food have been destroyed as unfit for the food of man, *viz.*:—

MEAT.

		Ox Tails	..	..	..	16
		,, Tails	..	lbs.	..	22
		,, Suet	..	lbs.	..	227
Beef.		Veal.				
Carcases of (including offal)	64	Pieces of	..	lbs.	..	80
Forequarters	..	..	..	..	..	..
Hindquarters	..	Mutton.				
Pieces of	..	Carcases of	..	..	..	20
Ox Livers	..	Pieces of	..	lbs.	..	567½
,, Livers	..	Sheep's Lungs	Sets.	..	..	13
,, Lungs	..	,, Livers	..	..	..	55
,, Heads and Tongues	..	,, Livers	lbs.	..	..	174
,, Kidneys	..	,, Heads	..	..	..	6
,, Kidneys	..	,, Kidneys	lbs.	..	..	20
,, Kidneys	..	,, Hearts	..	..	..	56

Pork

Carcases of	..	..	..	27
Pieces of	..	lbs.		1722½
Pigs' Heads	..	..	..	113
„ Lungs	..	sets	..	109
„ Livers	..	..	..	78

Fish.

Bloaters	..	stone	..	11
„	..	lbs.	..	360
„	..	boxes	..	14
Bream	..	lbs.	..	14
„	..	box	..	1
Cod	..	..	stone	4½
„	..	..	lbs.	159
„	..	..	boxes	73
Dabs	..	..	lbs.	79
„	..	..	kit	1
„	..	..	cases	8
Dogfish	..	..	stone	31½
„	..	..	kits	4
Eels	..	..	case	1
Fillets	..	..	stone	15
„	..	..	lbs.	5
„	..	..	boxes	500
Gurnard	..	..	box	1
Haddock	..	..	stone	16¼
„	..	..	lbs.	21
„	..	..	kits	3
„	..	..	boxes	143
Hake	..	..	lbs.	39
„	..	..	cases	2
Halibut	..	..	stone	3
„	..	..	lbs.	66
„	..	..	box	1
Herrings	..	..	stone	28
„	..	..	lbs.	82
„	..	..	kits	3
„	..	..	boxes	52
„	..	..	barrels	12
John Dorys	..	..	lbs.	105
Kippers	..	..	boxes	232
Mackerel	..	..	lbs.	34
„	..	..	boxes	12
Meagrims	..	..	stone	21½
„	..	..	lbs.	7
„	..	..	boxes	59
Melts	..	..	boxes	8
Mixed Fish	..	..	cases	5

Mullet	..	..	lbs.	..	17¼
Plaice	..	..	stone	..	3
„	..	..	boxes	..	11
Pollack	..	..	stone	..	11
„	..	..	lbs.	..	21
„	..	..	box	..	1
Roes	..	..	stone	..	10
„	..	..	boxes	..	25
Roker	..	..	stone	..	6
Salmon	..	..	lbs.	..	142½
„	..	..	fish	..	2
„ Frozen	..	..	stone	..	11
„	..	..	lbs.	..	360
„	..	..	boxes	..	14
Saltfish	..	..	boxes	..	9
Shrimps	..	..	lbs.	..	78
„	..	..	pecks	..	8
„	..	..	gallons	..	102
„	..	..	basket	..	1
„	..	..	boxes	..	11
Skate	..	..	stone	..	12
„	..	..	lbs.	..	104
„	..	..	boxes	..	3
Smelts	..	..	boxes	..	7
Soles	..	..	stone	..	8
„	..	..	lbs.	..	90
„	..	..	kits	..	2
„	..	..	boxes	..	2
Sprats	..	..	bushels	..	3
„	..	..	cases	..	72
„	..	..	barrels	..	4
Turbot	..	..	lbs.	..	21½
Whitebait	..	..	boxes	..	4
Whiting	..	..	lbs	..	63
„	..	..	boxes	..	58
Witches	..	..	cases	..	9
Lobsters	..	..	..	..	10
„	..	..	lbs.	..	81¾
„	..	..	box	..	1
Crabs	..	..	..	..	868
„	..	..	lbs.	..	81
„	..	..	kits	..	3
Crayfish	..	..	lbs.	..	7¼
Escallops	..	..	bags	..	9
Prawns	..	..	lbs.	..	10
„	..	..	tins	..	48
Periwinkles	..	..	bushels	..	3
„	..	..	bags	..	6
Whelks	..	..	lbs.	..	40

GENERAL INSPECTION.

DWELLING-HOUSES.—6,578 dwelling-houses were inspected, and 16,825 re-inspections were made whilst work ordered to be carried out was in progress.

COMPLAINTS.—1,522 complaints were made at the office and received attention.

SLAUGHTERHOUSES.—1,577 visits were made to the slaughterhouses. There were 62 in actual regular use on December 31st, 13 being annual licences; these have been all well kept.

DAIRIES, COWSHEDS AND MILKSHOPS.—2,573 visits were made to the registered Dairies, Cowsheds and Milkshops. There are 728 retail purveyors, 16 wholesale dealers in milk, and 3 cowkeepers carrying on business in the City, and these premises have been well kept.

Under the Milk (Special Designations) Order 1922, 23 licences for the sale of Certified, Grade A (Tuberculin tested), Grade A and Pasteurized Milk were issued.

COMMON LODGING HOUSES.—166 visits were made to the seven registered Common Lodging Houses.

WORKSHOPS.—576 visits were made to the Workshops, which have been well kept, and 76 visits to out-workers' premises. 16 complaints were received from H.M. Inspector of Factories, all of which received attention.

BAKEHOUSES.—329 visits were made to the different bakehouses, most of which were found to be kept in a cleanly condition.

SAUSAGE MANUFACTORIES.—440 visits were made to these premises, which were kept in a satisfactory manner.

OLD DRAINS.—2,170 old drains were tested or re-tested.

NEW DRAINS AND FITTINGS.—2,326 new drains were tested or re-tested and 1,711 sanitary fittings were examined.

OCCUPATION CERTIFICATES.—839 Occupation Certificates were issued with respect to new buildings.

SANITARY CERTIFICATES.—9 Sanitary Certificates with respect to the sanitary condition of the drains and fittings of old dwelling-houses have been issued.

INCREASE OF RENT AND MORTGAGE INTEREST (RESTRICTION) ACT, 1920.—Under this Act 3 certificates relating to dwelling-houses not being kept in a reasonable state of repair were granted to the tenants.

MERCHANDISE MARKS ACT, 1926, AND AGRICULTURAL PRODUCE (GRADING AND MARKING) ACT, 1928.—Under the above Acts Orders in Council have been made in relation to the marking of the following imported food stuffs:—Fresh Apples, Raw Tomatoes, Eggs, (hen or duck eggs in shell), Dried Eggs, Oat Products (Oatmeal, Rolled Oats, Oat Flour and Groats), Currants, Sultanas, Raisins and Honey. During the year 1,305 visits were paid to various shops to ensure compliance with the provisions of the above Orders. A large number of traders were cautioned.

RATS AND MICE (DESTRUCTION) ACT.—428 visits were made to rat infested premises and 21 notices were served.

INFECTIOUS DISEASES.—1,086 cases of infectious diseases were visited and investigated, and 1,184 rooms were disinfected by the disinfectors.

I am, Gentlemen,

Your obedient servant.

C. W. HALL,
Chief Sanitary Inspector.

Report of Meat Inspector and Inspector under the Diseases of Animals Acts.

A. MEARNS FRASER, ESQ., M.D.

Medical Officer of Health.

SIR,

I beg to present my report for the year ending 31st December 1931.

The following is a list of animals brought into the City of Portsmouth.

Arriving by boats from the Isle of Wight :

Beasts	..	..	..	1,288
Sheep	..	..	..	961
Calves	..	..	..	1,917
Swine	..	..	..	7,371
Horses	..	..	..	279

Arriving at Cosham Market :

Beasts	..	..	..	11
Sheep	..	..	..	710
Calves	..	..	..	737
Swine	..	..	..	4,090
Horses	..	..	..	4

Arriving at Fratton Railway Cattle Docks :

Beasts	..	..	..	5,034
Sheep	..	..	..	15,396
Calves	..	..	..	760
Swine	..	..	..	4,323

Arriving at Cosham Railway Cattle Docks :

Beasts	..	..	..	468
Sheep	..	..	..	603
Calves	..	..	..	4
Horses	..	..	..	225

INSPECTION OF CATTLE DOCKS, FERRY-BOATS AND CATTLE TRUCKS.—These have been kept in a satisfactory manner, being cleansed and disinfected immediately after being used for the conveyance of animals.

COSHAM MARKET.—This weekly market has been well kept, and all live stock exposed for sale have been of good quality and apparently free from disease.

SWINE FEVER ORDER, 1922.—752 licences were issued for the movement of 3,790 swine, and 2,242 licences were received in regard to movement of 21,080 swine into Portsmouth during the year. 7 cases of swine fever occurred in districts far apart involving over 200 pigs. In these cases I found that all the keepers used swill for feeding. Generally the piggeries have been well kept, with a few exceptions where warnings were given, principally for dirty sties, and allowing filth and manure to accumulate.

IMPORTATION OF DOGS AND CATS ORDER.—29 notifications were received from the Customs with regard to dogs and cats temporarily detained on ships at this port. These were dealt with as provided in the Order. One contravention took place by a local veterinary inspector who removed the carcase of a dog to his house to carry out a post-mortem examination. This carcase was traced and afterwards burned at the Corporation destructor.

TUBERCULOSIS ORDER, 1925.—During the year, I have regularly visited and inspected all cows kept for the production of milk in Portsmouth, and found them to be of good quality, and in a cleanly condition. In no cases were any symptoms of tuberculosis or other diseases manifested and no animals were slaughtered under the above order.

CONVEYANCE OF LIVE POULTRY ORDER, 1919.—Crates, boxes, etc., for conveying live poultry were inspected and found kept in a satisfactory condition.

FOOT AND MOUTH DISEASE.—No outbreaks of foot-and-mouth disease occurred within the city during 1931, but owing to serious outbreaks in various parts of Britain the Ministry of Agriculture and Fisheries issued an order to prohibit movement of cattle except under licence. While this lasted 212 licences were issued for the movement of 2,662 animals into Portsmouth for the purpose of slaughter.

TRANSIT OF ANIMALS ORDER, 1930.—Cleansing and disinfecting of vehicles used for conveyance of animals within Portsmouth have been carried out in a fairly satisfactory manner except for a few cases where I have warned the carriers. At the local weekly cattle market there is provided every facility for carrying out the Order.

THE PARROTS (PROHIBITION OF IMPORT) REGULATIONS, 1930.—These regulations were made to prevent the spread of psittacosis in this country. Two notices were received from the Customs referring to a number of parrots and other birds mentioned in the above order, and in one case 5 of these birds were permitted to be moved from the ship under a Ministry of Health licence.

SLAUGHTERHOUSES.—These premises have been kept fairly well during the last twelve months. Warnings have been given in a number of cases, principally for failure to remove offal within the time specified in the byelaws. Section 9 of the Public Health (Meat) Regulations, 1924, which requires notification to the Local Authority of any appearance of disease in a slaughtered animal has not in some instances been strictly observed. One butcher was prosecuted and fined for this offence. In another case, offal badly affected by tuberculosis was buried beneath manure in the refuse pit, obviously for concealment. As this slaughterhouse was then used by several butchers, it was impossible to prove ownership. A number of complaints have been received from householders regarding smells and noise from animals. This will continue until a public abattoir is in use in the City of Portsmouth.

CASEOUS LYMPHADENITIS.—During the year I inspected between 5 and 10 per cent. of 10,543 carcasses of mutton, which had arrived in Portsmouth subject to inspection. On examination there were found only 6 carcasses affected by the above disease, and this was manifested only in one gland.

I am Sir,

Your obedient servant,

D. A. HOGG.

*Meat Inspector and Inspector under the
Diseases of Animals Acts.*

The Public Analyst's Report.

THE CHEMICAL LABORATORY,
16 ARUNDEL STREET,
PORTSMOUTH.

*To the Chairman and Members of the Health
and Housing Committee.*

Gentlemen,

I beg to submit my Report on the work carried out in my Department during the year ending 31st December, 1931.

The percentage of detected adulteration is almost identical with that found during the previous year.

During the year, Mr. E. G. Whittle, B.Sc., joined the Staff from the Municipal College, as Pupil Assistant, and is making excellent progress.

I have to record my appreciation of the help of Mr. C. M. Beckett, without whose loyal co-operation it would be impossible to carry out the work, also of the thorough and conscientious manner in which Inspector E. J. G. Sinnett carries out his duties at all times.

I remain, gentlemen,

Your obedient servant,

REGINALD P. PAGE,

Public Analyst.

REPORT OF THE PUBLIC ANALYST.

During the year ending 31st December, 1931, the number of samples and specimens examined was 4,383, which may be briefly summarised as follows :—

	1931	1930
	<hr/>	<hr/>
Food and Drugs Act	1233	1239
“Graded” Milks	120	123
Samples taken at Farms	39	17
Water	19	14
Paints, Oils, Soap, etc.	5	11
Diphtheritic Material	2901	3137
Miscellaneous	66	24
	<hr/>	<hr/>
Totals	4383	4565
	<hr/>	<hr/>

The number of samples taken in connection with the Food and Drugs Act is 1,233. This gives an average of one sample for every 186 persons in the City, or a “Sample Rate” of 5.4 samples per 1,000 persons.

The nature of the samples analysed, the number adulterated or of inferior quality, is shown in the following table :—

TABLE A.

Nature of Sample.	Number Examined	Number Genuine	Number Inferior	Number Adulterated	Percentage Adulterated
Milk	615	582	6	27	4.3
Separated Milk	2	2	..	..	..
Cream	8	8	..	..	..
Butter	112	110	..	2	1.7
Margarine	61	60	1	..	..
Lard	4	4	..	..	..
Coffee	49	49	..	..	..
Cocoa	47	47	..	..	..
Tea	22	22	..	..	..
Cheese	7	6	..	1	14.2
Lemon Curd	7	7	..	..	..
Pepper	22	22	..	..	..
Mustard	30	28	..	2	6.6
Compound Mustard	1	1	..	..	..
Ground Ginger	8	8	..	..	..
Ground Almonds	7	7	..	..	..
Ground Rice	8	8	..	..	..
Rice	16	16	..	..	..
Pearl Barley	12	12	..	..	..
Arrowroot	6	6	..	..	..
Honey	7	7	..	..	..
Coffee Extract	4	4	..	..	..
Fruit Salad	12	12	..	..	..
Raisins	6	6	..	..	..
Sultanas	4	4	..	..	..
Currants	4	4	..	..	..
Mixed Candied Peel	4	4	..	..	..
Mincemeat	4	4	..	..	..
Baking Powder	7	7	..	..	..
Sugar	3	3	..	..	..
Cream Ice	3	3	..	..	..
Meat Paste	2	2	..	..	..
Fish Paste	2	2	..	..	..
Brawn	1	1	..	..	..
Sausages	2	2	..	..	..
Boiled Sweets	6	6	..	..	..
Preserved Cherries	4	4	..	..	..
Preserved Fruits	4	4	..	..	..
Self Raising Flour	3	3	..	..	..
Boric Ointment	7	7	..	..	..
Zinc Ointment	9	9	..	..	..
Camphorated Oil	6	6	..	..	..
Tincture of Iodine	5	5	..	..	..
Ammoniated Tincture of Quinine	5	5	..	..	..
Citric Acid	4	4	..	..	..
Tartaric Acid	3	3	..	..	..
Glauber Salts	3	3	..	..	..
Epsom Salts	3	3	..	..	..
Olive Oil	2	2	..	..	..
Non-Alcoholic Wine	4	4	..	..	..
Gin	16	14	1	1	6.2
Whiskey	41	31	..	10	24.3
TOTAL	1233	1182	8	43	3.5

TABLE B.
ADULTERATED SAMPLES.

No.	Nature of Sample			Nature of Adulteration	Observation
56	Milk	..	..	6% Deficient in Milk Fat	Summons dismissed, Magistrates satisfied that milk sold was as drawn from the cow.
108	"	..	..	6.6% Deficient in Milk Fat	Test Sample, private person
110	"	..	..	18.6% " " "	Test Sample, private person
311	Whiskey	..	..	7.6% Excessive Water	Test Sample
313	"	..	..	3.0% " "	Test Sample
317	"	..	..	15.3% " "	Test Sample
325	"	..	..	10.7% " "	Fined £2
326	"	..	..	5.3% " "	Fined £5
327	"	..	..	3.0% " "	Fined £2
389	Milk	..	..	13% Deficient in Milk Fat	Fined £3 and 11/6 Costs
402	"	..	..	5% " " "	Cautioned by M.O.H.
405	"	..	..	11% " " "	Fined £3
416	"	..	..	10% " " "	Fined £2 and 10/- Costs
417	"	..	..	6.7 " " "	Test Sample, private person
418	"	..	..	6.7% " " "	Test Sample, Grade A Milk
437	"	..	..	10.3% " " "	No Proceedings
438	"	..	..	22% " " "	No Proceedings
440	"	..	..	10% " " "	No Proceedings
442	"	..	..	5% " " "	Test Sample
443	"	..	..	10% " " "	Test Sample, private person
486	"	..	..	16.6% " " "	Taken at the Farm after seeing the cows milked
488	"	..	..	13.3% " " "	
489	"	..	..	13.3% " " "	
493	"	..	..	6.6% " " "	Cautioned by M.O.H.
524	"	..	..	6.0% " " "	Cautioned by M.O.H.
585	"	..	..	5.0% " " "	Test Sample
658	Mustard	..	..	15% Foreign Starch	Test Sample
671	Milk	..	..	15% Deficient in Milk Fat	Test Sample, private person
673	"	..	..	18% " " "	Test Sample, private person
715	Butter	..	..	2.7% Above the legal limit of 16% Water	Test Sample, private person
775	Milk	..	..	13% Deficient in Milk Fat	Summons dismissed, Magistrates satisfied that milk sold was as drawn from the cow
791	"	..	..	28% " " "	
792	"	..	..	15% " " "	
838	Mustard	..	..	15% Foreign Starch	Test Sample
842	Milk	..	..	6% Deficient in Milk Fat	Cautioned by M.O.H.
1007	Whisky	..	..	7.6% Added Water	Test Sample
1008	Gin	..	..	3.3% " "	Test Sample
1012	Butter	..	..	140 parts per million Boric Acid	Test Sample
1015	Whisky	..	..	3.8% Added Water	Dismissed on payment of Costs 14/6
1064	Cheese Gruyère	..	..	Containing 1 grain of Tin per pound	Test Sample
1128	Milk	..	..	9.0% Deficient in Milk Fat	Test Sample
1220	Whiskey	..	..	10.7% Added Water	Test Sample
1224	"	..	..	10.7% " "	Summons withdrawn Defendant died before hearing of case.
1136	Skim Milk..	..	..	Sample sold from bucket which was not marked "Skim or Separated Milk"	Fined £2

The Fines including Costs amounted to £20 16 0.

FARMERS' SAMPLES.

Sixty-two samples of Milk were taken during the year, representing the milk supplied to Retailers of the City, and of these eleven were found to be adulterated. Legal proceedings were instituted in four cases. In each case the summons was dismissed, the Magistrates being satisfied that the Milk sold was as drawn from the cow. In one case a letter of caution was sent by the M.O.H. ; no proceedings were instituted in the other six cases, for after visiting the farm and seeing the cows milked, it was found the milk did not come up to the legal standard.

MILK SUPPLIED TO LOCAL INSTITUTIONS.

Seventy-nine samples were obtained from St. Mary's Hospital, Kingston Prison, and the various Hospitals and Institutions in the City. All were returned as genuine.

TABLE C.

Showing the number of samples analysed and the number adulterated in Portsmouth during the last five years :—

			Year	Samples Examined	Number Adulterated	Percentage Adulterated
PORTSMOUTH	..	..	1927	1,261	53	4.2
Do.	..	..	1928	1,295	60	4.6
Do.	..	..	1929	1,240	54	4.3
Do.	..	..	1930	1,239	45	3.6
Do.	..	..	1931	1,233	43	3.5
ENGLAND AND WALES	..	..	1929	133,584	7,260	5.4
Do.	..	..	1930	136,515	6,496	4.8

MILK.

The following table gives the statistics of the adulteration of Milk during the last five years :—

TABLE D.

			Year	Samples Examined	Number Adulterated	Percentage Adulterated
PORTSMOUTH	..	..	1927	601	29	4.8
Do.	..	..	1928	626	44	7.0
Do.	..	..	1929	583	30	5.1
Do.	..	..	1930	606	32	5.2
Do.	..	..	1931	615	27	4.3
ENGLAND AND WALES	..	..	1929	68,115	5,293	7.8
Do.	..	..	1930	69,311	4,581	6.6

TABLE E.

Showing the average amount of Milk Fat and of Solids-not-Fat for each month in the year :—

Month	Milk Fat	Solids-not-Fat	Total Solids
January	3.89	8.88	12.77
February	3.74	8.85	12.59
March	3.76	8.87	12.63
April	3.75	8.86	12.61
May	3.49	8.81	12.30
June	3.63	8.93	12.56
July	3.84	8.79	12.63
August	3.86	8.97	12.83
September	3.76	8.91	12.67
October	3.84	9.04	12.98
November	3.91	8.86	12.77
December	4.05	8.75	12.80
Average 1931	3.79	8.88	12.67
„ 1930	3.66	8.87	12.53

CERTIFIED MILK.

(Examined 27 ; Passed 27 ; Rejected 0).

This Milk is produced by herds that contain no cows which react to the Tuberculin Test. The Milk is bottled on the Farm where it is produced and it must not contain, at anytime before delivery to the consumer “more than 30,000 Bacteria per cubic centimetre and ‘Bacillus Coli’ must be absent from one tenth part of a cubic centimetre of the Milk.”

The 27 samples examined contained an average of 1,538 Bacteria per cubic centimetre and all of the samples complied with the “Bacillus Coli” test.

The average amount of Fat was 3.9 per cent. and of Solids-not-Fat 9.18 per cent.

The average retail price of Certified Milk for the year was 1/- per quart.

The results show that a very high standard of quality has been maintained for the year and represents almost the ideal in Milk production.

Whilst there will always be a market for Certified Milk, it is feared that the high price will be a limiting factor to its sale.

GRADE A (TUBERCULIN TESTED) MILK.

(Examined 69; Passed 52; Rejected 17.)

This Milk is produced by cows which have been certified free from disease and which are subjected to the Tuberculin Test at intervals of six months. It must not contain “more

than 200,000 Bacteria per cubic centimetre and the 'Bacillus Coli' must be absent from one hundredth of a cubic centimetre." The Milk must not be treated by heat at any stage.

Grade A. (Tuberculin Tested) Milk is delivered to the Retailer in sealed churns and bottled locally.

The 69 samples gave an average of 20,102 Bacteria per cubic centimetre and on 17 occasions the milk was found to contain "Bacillus Coli" in one-hundredth of a cubic centimetre.

The average amount of Fat was 3.92 per cent. and of Solids-not-Fat 8.95 per cent.

The average price throughout the year was 8½d. per quart.

GRADE A MILK.

(Examined 24; Passed 18; Rejected 6.)

Grade A Milk is produced from cows which are inspected by a Veterinary Surgeon at three-monthly intervals and the milk is to be produced and treated in such a manner that a sample, taken at anytime between Production and Delivery to the consumer, shall not contain "more than 200,000 Bacteria to the cubic centimetre and 'Bacillus Coli' shall be absent from one-hundredth part of a cubic centimetre of the Milk." The Milk shall not be subjected to heat at any stage.

In other words, it is milk produced from apparently healthy cows under normally clean conditions and it is delivered to the Retailer in sealed churns and bottled locally.

The 24 samples examined during the year, contained an average of 61,325 Bacteria per cubic centimetre, and on six occasions the Milk failed to pass the "Bacillus Coli" Test. The average amount of Fat was 3.57 per cent. and of Solids-not-Fat 8.70 per cent.

The price was one penny per quart higher than that charged for milk of commercial quality.

The introduction of Graded Milks has, as far as my experience goes, done a great deal towards the furtherance of a pure and more wholesome supply generally, and although the number of licences issued to Producers of these types of milk is increasing, as will be seen from the table at the end of this paragraph, yet the demand should be greater than it is.

There is no food of greater value than good milk and no food more dangerous than bad milk, but milk is one of the few foods whose value cannot be determined by its

appearance, taste or touch. It is essential that the Purchaser should be able to know the relative value of what he buys and, seeing that this is not apparent in the case of milk, such information should be supplied by means of a classification of all milk sold. At the present time the Purchaser buying milk is not informed, and is unable to tell for himself, if the milk he purchases is Raw, Pasteurized or even Sterilised. Such being the case, and there being no visible means of differentiating between milk produced under good conditions and milk produced under bad conditions, it follows that a Producer need not take the trouble to produce a better quality article if he can get an equal price for an inferior one.

The latest researches into the relative nutritive value of Raw and Pasteurized Milk, shows that Raw Milk has undoubted advantages over Pasteurized Milk. It is therefore essential that an ample supply of pure and wholesome Raw Milk should be available to the Public.

There are three Grades of Raw Milk, namely: Certified Grade A, (Tuberculin Tested) and Grade A, and of these only Certified and Grade A (Tuberculin Tested) are produced from cows which have been tested with Tuberculin and can reasonably be called "safe". Grade A Milk, although produced from cattle which are periodically inspected, and although having to conform with the same standard of cleanliness as Grade A (Tuberculin Tested), does not carry any guarantee of freedom from Tuberculosis on the part of the cows producing it.

In addition to these grades of milk, there is ordinary Commercial Milk which forms the bulk of the daily supply. It is estimated that in Portsmouth, about 75 per cent. of this milk is pasteurized, and it would appear from figures in my possession that the citizens of Portsmouth consume about half a pint of milk daily per head of the population.

From time to time a certain amount of confusion is apparent in the mind of the general public over the various grades of milk and not, I think without reason. Usually an article labelled "Grade A" is of the *first* quality, but this is not so in the case of milk. Moreover, it is not surprising to find that the Public do not appreciate the difference between Grade A (Tuberculin Tested) and Grade A Milk. They cannot be expected to know that "Tuberculin Tested" refers

to the cows producing the milk and not to the milk itself and that it represents a higher grade of milk than Grade A.

Also the term "Certified," representing as it does the finest milk produced, gives no indication of this fact from its nomenclature.

The Milk (Special Designations) Order has now been in force for nearly ten years, during which time some thousands of samples have been examined, and it should be possible to review the standards laid down in the light of the information available, and to revise the nomenclature, having regard to the source of production and methods of handling the milk.

It would be a step in the right direction if no Raw Milk of a lower standard of cleanliness than Grade A be allowed, all other milk to be pasteurized before sale or used for cooking or manufacturing purposes.

There is a movement at the present time to urge the Government to revise the Milk (Special Designations) Order with this end in view. In addition there are certain Local Authorities who are seeking power to compel all milk, not sold from cows which have passed the Tuberculin Test, to be pasteurized. The effect of this would be to concentrate the retailing of milk into the hands of the large dairies. On the other hand, seeing that pasteurization when carried out by the Government method destroys all disease producing organisms, it would tend to ensure a supply of safe milk. At the same time the demand for Raw Milk of a high grade type from Tuberculin Tested cows would be stimulated, and this would lead to the improvement of our dairy herds.

Table showing the number of Producers, in England and Wales, of each grade of Raw Milk.

Date	Certified	Grade A (T.T).	Grade A.
1927	121	150	266
1931	174	238	582

BUTTER.

Butter should contain no Fat other than that derived from milk, not more than 16 per cent. of water and should not contain any preservatives other than salt.

122 samples of Butter were analysed during the year, and of these 2 did not comply with the foregoing conditions.

One sample contained water slightly in excess of the legal limit of 16 per cent. the vendor being cautioned.

The other sample was found to contain Boron Preservative to the extent of 140 parts per million of Boric Acid, such addition being a contravention of the Public Health (Preservatives, etc., in Food) Regulations. The sample was taken from a consignment of Butter to Portsmouth by the Customs Authorities at Southampton, but owing to the time that had elapsed between the taking of the sample and the notification here, it was impossible to trace the sale of any of this Butter in Portsmouth.

The following table gives the number of samples of Butter analysed, the number adulterated, and the percentage of adulteration during the last five years :—

TABLE F.

	Year	Samples Examined	Number Adulterated	Percentage Adulterated
PORTSMOUTH	1927	138	1	0.7
Do.	1928	109	4	3.6
Do.	1929	118	0	—
Do.	1930	109	0	—
Do.	1931	112	2	1.7
ENGLAND AND WALES ..	1930	10,803	131	1.2

MARGARINE.

Sixty-one samples of Margarine were analysed during the year and found to be free from Preservatives.

In no case was excessive water detected, and all of the samples were correctly labelled as required by the Sale of Food and Drugs Act.

DRUGS.

Forty-seven samples were examined, all of which were purchased at local pharmacies, and proved to be in accordance with the standards laid down in the British Pharmacopoeia.

SPIRITS.

Forty-one samples of Whiskey were analysed, and of these ten, or 24 per cent., were found to be diluted with water beyond the legal limit of 35 degrees under proof.

Sixteen samples of Gin were examined and one of these was found to be diluted.

The following Table shows to what extent the adulteration of spirits is carried on in the City. When it is remembered that there are upwards of 300 On-licences in the City, it is evident that all of these cannot be visited during the year.

Year				No. of Samples Examined	No. of Samples Adulterated	Percentage of Adulteration
1926	..	..	..	38	6	16
1927	..	..	..	68	14	20
1928	..	..	..	84	5	5.9
1929	..	..	..	51	13	25.4
1930	..	..	..	69	5	7.2
1931	..	..	..	57	11	19.3

MISCELLANEOUS.

On 14 occasions during the year the Department has been utilised by the City Police. One case was in connection with a charge of Murder, nine cases of Criminal Assault, two cases under the Dangerous Drugs Act, one case of alleged Criminal Abortion and one case of improper labelling under the Poisons and Pharmacy Acts.

The remaining samples under this heading consist of samples submitted by the Medical Officer of Health, other Departments of the Corporation and of samples brought to the Laboratory at various times by Ratepayers or submitted by Retailers in order to test the purity of their products.

TABLE OF ANALYSES OF PUBLIC WATER SUPPLY DURING 1931
BY THE PUBLIC ANALYST.
(Results expressed in parts per 100,000.)

Date 1931	Source	Total Solid Residue	Volatile Solid Residue	Chlorine	Nitrogen as Nitrates	Total Hardness	Free or Saline Ammonia	Albu- minoid or Organic Ammonia	Oxygen absorbed in 4 hours at 37° C.	Remarks
Jan. 22	Co.'s Main, 16 Arundel Street	30.5	2.0	1.6	0.48	22.5	0.0085	0.0005	Nil	Bright and Clear The analysis shows that the water is in good condition on the date in question. do.
Feb. 26	do.	28.7	2.0	1.7	0.41	22.0	0.0015	0.0015	Nil	do.
Mar. 25	do.	31.3	2.7	1.7	0.44	22.5	0.0005	0.0005	Nil	do.
April 28	do.	30.0	2.0	1.6	0.42	22.0	0.0005	0.003	Nil	do.
May 21	do.	30.3	3.0	1.8	0.46	22.0	0.0005	0.0015	Nil	do.
June 17	do.	30.2	1.0	1.6	0.42	21.0	0.0005	0.0017	Nil	do.
July 17	do.	32.0	4.0	1.6	0.47	21.0	Nil	0.002	Nil	do.
Aug. 20	do.	30.5	3.0	1.6	0.40	21.0	Nil	0.003	Nil	do.
Sept. 25	do.	31.3	2.0	1.6	0.35	22.5	Nil	0.002	Nil	do.
Oct. 27	do.	31.0	2.5	1.6	0.42	23.0	Nil	0.002	Nil	do.
Nov. 20	do.	30.6	1.6	1.6	0.43	22.5	Nil	0.002	Nil	do.
Dec. 16	do.	31.8	2.0	1.6	0.43	22.0	Nil	0.002	Nil	do.

INDEX.

	<i>Page</i>
Abattoir, Public	55
Acreage	9
Ambulance Facilities	53
Analyst's Report	78-89
Appendix	63
Bacteriology	53
Births	9, 10
Birth-rate	9, 10
Chief Sanitary Inspector's Report	70-74
Children's Act, 1908	46
Closing Orders	58
Common Lodging Houses	73
Cowsheds, Bakehouses, etc.	73
Deaths, total	10
,, Causes, Ages and Districts	16-23
,, children under 1 year	9, 15
,, different class of	24
Death-rate for 10 years	14
Death Rate for 20 Large Towns	15
Demolition Orders	58
Diphtheria	29
Diseases of Animals Acts	75-77
Disinfectant Fluid	55
Drainage Defects	70
Enteric Fever	29
Factories and Workshops	55, 56
Food, unsound or destroyed	71-72
Foods and Drugs (Adulteration) Act	78-89
General Inspection	73
General Provision of Health Services	51
Graded Milks	83-86
Health and Housing Committee	2
Hospitals and Clinics	51, 52
Housing	57
Infectious Diseases	29, 30
Infectious Diseases, weekly numbers	31
Infantile Mortality	9, 47, 65
Inhabited Houses	9, 12
Inspection of Cattle Trucks, etc.	75
Insurance Scheme under Midwives Act, 1926	46
Laboratory Facilities	53
Local and Adoptive Acts	54
Local Government Act, 1929	52

INDEX—*continued*.

	<i>Page</i>
Marriages	12
Maternal Mortality	46
Maternity and Child Welfare	44
Maternity Homes and Hospitals	44, 45
Meat Inspector's Report	75-77
Merchandise Marks Act, 1926	74
Meteorological Observations	60-62
Midwives, Roll of	46, 49-50
Milton Hospital, Report	67-69
Municipal Maternity Hospital	45
Municipal Tuberculosis Dispensary	32
Notification of Infectious Diseases	29-31
Nursing Facilities	52
Nursing Homes, Registration of	52
Ophthalmia Neonatorum	29
Population	9-12
Port Sanitary Authority	66
Professional Nursing in the Home	52
Rateable Value	9
Rats and Mice (Destruction) Act, 1919	74
Refuse Collection and Disposal	54
Sanitary Circumstances of the City	54
Scarlet Fever	30
Slaughterhouses	73, 77
Slum Clearance Scheme	57
Slum Properties	57
Small-pox	30
Staff of Health Department	4-7
Statistics and Social Conditions of the Area	9-11
Sum Represented by a Penny Rate	9
Summary of Statistics	9
Summer Diarrhoea	48
Swine Fever	76
Scavenging	54
Tuberculosis	32-38
Vaccination Returns	27-28
Venereal Diseases	39-43
Water Supply	54
Water Supply, Analysis of	89
Workshops, Nuisances in respect of	56
Zymotic Death Rates	10, 25
Zymotic Diseases (1861-1931) Table	26

